



OFFICE OF RESEARCH & SPONSORED PROGRAMS  
FY 2015 ANNUAL REPORT



THE UNIVERSITY of TENNESSEE   
CHATTANOOGA



# UTC SPONSORED PROGRAM ACTIVITY



In this, my inaugural year at the University of Tennessee at Chattanooga, it is with great pleasure that I present the 2015 Office of Research and Sponsored Programs (ORSP) Annual Report summarizing the outstanding efforts of our faculty and staff here at UTC. These efforts translate into support for faculty and student excellence across all disciplines, both on our campus and in the Chattanooga region as a whole. From exploring nanofiber-based bone repair to examining the psychological dimensions of spirituality to outstanding musical performances and teaching resources for the preparation of school teachers, nurses, and physical therapists, this past year UTC has continued to have an impact both regionally and nationally in the areas of innovative education, research, and creative endeavors. The ORSP has strategically and tirelessly assisted our faculty and staff in the identification, preparation, submission, and management of extramural proposals and contracts.

The current Annual Report reflects both the diversity and commitment to excellence found among our faculty and their disciplines. The amount of extramural funding applied for during the previous fiscal year reached \$28,710,783. Our total awards received were \$8,063,813. The number of submitted proposals increased by 85.96% over the previous year.

The pending and funded projects submitted involve collaborations within the institution, between institutions and, more and more frequently, with community partners who strive alongside us to promote the mission of this University to achieve success in the pursuit of knowledge and service. Congratulations to those UTC faculty, staff, and students who have volunteered their time and effort to pursuing these resources and opportunities.

As we move into fiscal year 2016, our offices look forward to expanding and extending the reach of their services to all of our faculty, staff and students!

- Dr. Joanne Romagni,  
Vice Chancellor for Research &  
Dean of the Graduate School

## TABLE OF CONTENTS

<b>UTC Sponsored Program Activity</b> .....	<b>2</b>
CRISP Awards .....	3
PSRA Awards .....	4
Total External Awards/Submissions .....	6
Awards/Submissions by Functional Area .....	7
Ten-Year Funding Trends by College .....	8
<b>Sponsored Activity by College</b> .....	<b>9</b>
Arts & Sciences .....	9
Business .....	21
Engineering & Computer Science .....	23
Health, Education & Professional Studies .....	33
Administrative Units .....	44
<b>About ORSP</b> .....	<b>52</b>

# UTC INTERNAL COMPETITIONS - CRISP

The Collaborative Research Initiative for Sponsored Programs (CRISP) internal grants program seeks to stimulate collaborative sponsored research at UTC by providing investigational teams of UTC faculty with resources and coordinated support services to help them build research capacity, create internal and external research collaborations, and establish a multi-disciplinary research team with the primary outcome of submitting competitive research proposals and successfully securing funding from external sources.

**Congratulations to our 2015-16 CRISP winners! We received a diverse and high quality array of proposals this year, and the office would like to thank everyone who submitted. See below for a list of the research teams that received CRISP funding this year.**

Team Members	Departments Represented	Project Title
Dr. Jennifer Boyd Dr. Jim Hiestand Mr. Andy Carroll Dr. Michael Bonsall (Oxford)	Biological & Environmental Sciences Mechanical Engineering Center for Academic & Innovative Technologies Oxford University	Investigating Intraspecific Variability in Energetic Responses to Climate Change Toward a Mechanistic Approach to Modeling Plant Species Distributions
Dr. David Giles Dr. Stephen Symes	Biological & Environmental Sciences Chemistry	Quantitative and Structural Characterization of Bacterial Phospholipids Following Fatty Acid Exposure
Dr. Yu Liang Dr. Zibin Guo Dr. Dalei Wu Dr. Nancy Fell Dr. Amanda Clark	Computer Science & Engineering Sociology, Anthropology, & Geography Physical Therapy Psychology	Virtual TaiJi System: An Innovative Modality for Rehabilitation
Dr. Gretchen Potts Dr. Ethan Carver Dr. Peggy Kovach	Chemistry Biological & Environmental Sciences	In-Depth Analysis of E-Cigarette Filling Solutions and their Biological Implications
Dr. Craig Tanis Dr. Sagar Kapadia	Computer Science & Engineering Graduate School of Computational Engineering	Intel MIC Optimization

# UTC INTERNAL COMPETITIONS - PSRA

The Provost Student Research Awards (PSRA) are designed to provide UTC students with a special opportunity to participate in original research with faculty members. The awards of up to \$1,000 support the students' research endeavors to enhance their learning experiences here at UTC.

**Congratulations to the 2015 Provost Student Research Award recipients!**

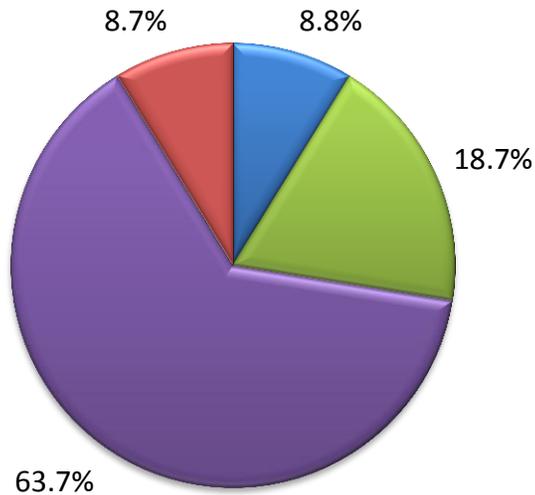
2015 Provost Student Research Awards Recipients		
Student Researcher	Faculty Advisor	Title
<b>Biological &amp; Environmental Sciences</b>		
Baker, Lyssa	David Giles	The Effect of Fatty Acids on Antibiotic Susceptibility of Multidrug Resistant Bacteria
DeGennaro, Lauren	Eric O'Neill	Identifying the Geographic Distributions of Two Cryptic Species of Salamander in TN using Environmental DNA
Elmore, Joanna & Katie Ray	Eric O'Neill	Effects of Genetic Admixture and Bacterial Symbionts on Fitness in the Invasive Seven-Spotted Ladybeetle
Marlowe, Max	Ethan Carver	Examination of Differential Gene Regulation in Response to E. Cigarette Refill Solutions
Miller, Evan	David Giles	A Targeted, Transposon Mutant Library Approach for Understanding the Mechanism of <i>V. cholera</i> Exogenous Fatty Acid Utilization
Perkins, M. Taylor	Hill Craddock	Phenotyping Interspecific First-Backcross <i>Castanea</i> Mill. (Fagaceae) for Resistance to Root Rot Disease Incited by <i>Phytophthora cinnamomi</i> Rands
Strom, Madeline	Loren Hayes	Social Network Analysis of Geographically and Ecologically Distinct Populations of <i>Octodon degus</i>
Taig-Johnston, Megan	Loren Hayes	The Effect of Predation Risk on Spatial Ecology and Genetic Structure in <i>Octodon degus</i>
<b>Chemical Engineering</b>		
Pruitt, Matthew	Bryan Ennis	Finite Element Modeling and Mechanics of Paste Extrusion
<b>Chemistry</b>		
Adorati, Katherine	Gretchen Potts	Effects of Cigarette Butts on Coastal Waters
Cho, Jin Y.	Stefanie Whitson	Competitive Binding in a Model Biomolecular Complex: The Effects of Fatty Acids on Association of Ibuprofen to Human Serum Albumin
Makwana, Ajay	Kyle Knight	Assessing the Feasibility of a One-Pot, Tandem Olefin Metatheses and Isomerization Reaction Using Resonance Stabilized Olefin Compounds
Thomas, Charles	Titus Albu	Fluorescence Studies of Lysozyme Modifications Induced by Quinones

## 2015 Provost Student Research Awards Recipients

Student Researcher	Faculty Advisor	Title
Zdunek, Patrick	John P. Lee	Synthesis, Characterization, and Reactivity of Ruthenium (II) and Ruthenium (IV) Complexes for Aromatic Carbon-Hydrogen Bond Activation and Catalysis
<b>Electrical Engineering</b>		
Joplin, Matthew	Thomas Daniel Loveless	Radiation Hardening of Low-Voltage Analog and Mixed-Signal Circuits in Sub-32 nm Technology Nodes
<b>Mathematics</b>		
Kotavl, David	Boris Belinskiy	Optimal Design in Accordance with the Spectrum of a Sturm-Liouville Problem
<b>Occupational Therapy</b>		
Grant, Paige	Jessica Crowe	Effects of Spaced Retrieval Training on Teaching Dressing Skills to Clients with Mild-to-Moderate Dementia
Sherlin, Tiffani, Taylor Mangrum, & Brianna Wishing	Jessica Crowe	Effects of Errorless Learning on Teaching Activities of Daily Living to Individuals with Moderate Dementia
<b>Physical Therapy</b>		
Stocks, Jennifer	Nancy Fell	Inaugural Trial of mStroke on Patients
Wells, Amanda, Elizabeth Harrison, & Callie Clement	Cathie Smith	Correlations of Physical Activity Level with Changes in Mood, Pain, Fatigue, and Peer Relationships During the Early Phase of Treatment for Pediatric Cancer Patients
Smith, Elizabeth	David Levine, Bage, Spratt	Topical Lotions and Cream Utilized in Outpatient Rehabilitation Clinics as a Potential Source of Bacterial Contamination
<b>Physics, Geology, &amp; Astronomy</b>		
Dudley, Dylan	Amy Brock-Hon	An Investigation into the Mineralogical Differences Between Two Soil Horizons at Mormon Mesa, NV
<b>Psychology</b>		
Arrowood, Robert	Ralph Hood	Scared to Death: An Examination of Underlying Terror in Death Awareness
Branson, R Chris	Amanda Clark	Examining the Utility of Embedded Executive Function Measures in Detecting Suboptimal Effort
Maeser, Lydia	O'Leary	Perceived Supervisor Support in Virtual and Face-to-Face Employees: The Moderating Effects of Equity Sensitivity
Nida, Allen	Amanda Clark, Jill Shelton	Engaging Chattanooga Community Members at UTC
Scott, Iain	Jill Shelton	The Effects of Context on Prospective Memory Commission Errors
Whitson, Naomi	Irene Ozbek	Remember to Stop and Smell the Roses: Can Olfactory Cues Improve Prospective Memory?

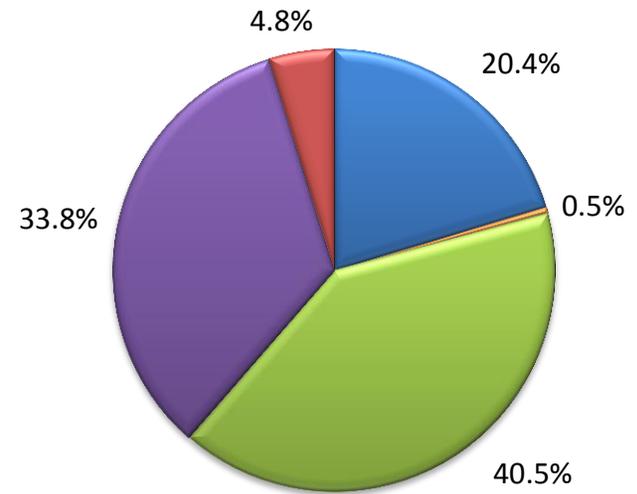
# UTC SPONSORED PROGRAM AWARDS & SUBMISSIONS FY 2015

**Total UTC External Funding:  
\$8,063,813**



- Arts & Sciences (\$709,237)
- Business Administration (\$0)
- Engineering & Computer Science (\$1,510,408)
- Health, Education & Professional Studies (\$5,139,806)
- Administrative Units (\$704,362)

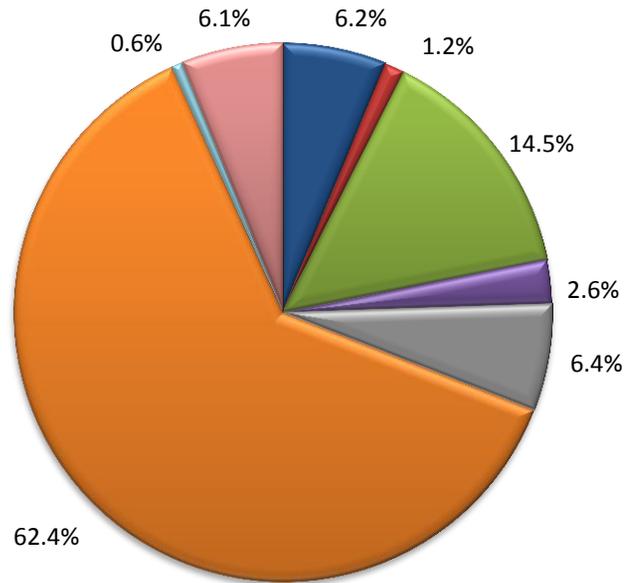
**Total External Funds Requested:  
\$28,710,783**



- Arts & Sciences (\$5,851,317)
- Business Administration (\$137,815)
- Engineering & Computer Science (\$11,639,861)
- Health, Education & Professional Studies (\$9,716,416)
- Administrative Units (\$1,365,374)

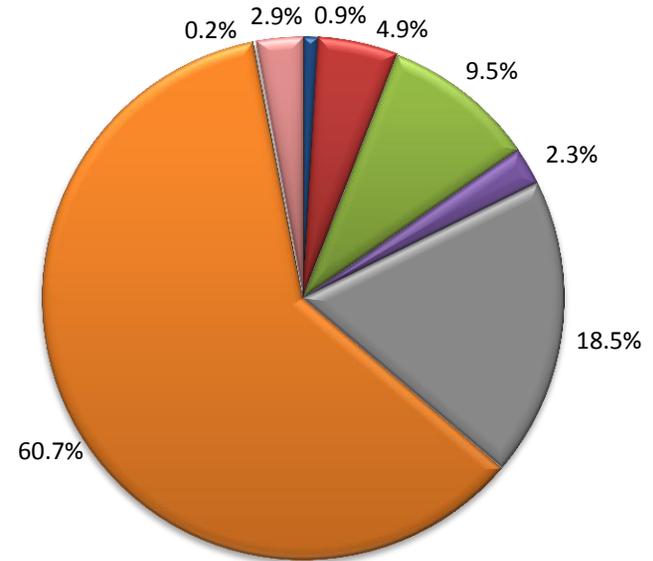
# UTC SPONSORED PROGRAMS BY FUNCTIONAL AREA\*

**FY 2015 Awards by Functional Area**



- Academic Services (\$500,129)
- Conference/Seminar (\$97,000)
- Instruction/Training (\$1,168,429)
- Institutional Support (\$208,882)
- Public Service (\$516,303)
- Research (\$5,028,708)
- Scholarships/Fellowships (\$52,000)
- Student Services (\$492,362)

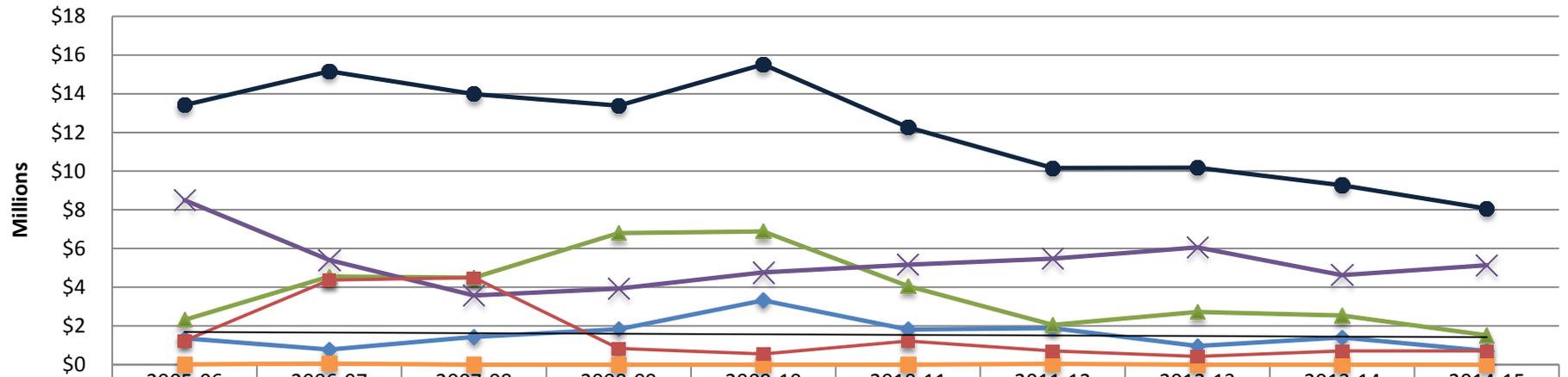
**FY 2015 Submissions by Functional Area**



- Academic Services (\$267,594)
- Conference/Seminar (\$1,415,607)
- Instruction/Training (\$2,735,228)
- Institutional Support (\$668,450)
- Public Service (\$5,312,299)
- Research (\$17,430,230)
- Scholarships/Fellowships (\$54,091)
- Student Services (\$827,283)

\*For Functional Area definitions, see <http://www.utc.edu/partnerships-sponsored-programs/tera-functionalareadefs.php>.

## TEN-YEAR FUNDING TRENDS BY COLLEGE, FISCAL YEARS 2006 - 2015



	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15
◆ CAS	\$1,365,162	\$777,402	\$1,422,938	\$1,828,151	\$3,319,047	\$1,818,841	\$1,885,938	\$964,040	\$1,400,863	\$709,237
■ COBA	\$7,000	\$55,500	\$0	\$0	\$0	\$0	\$34,980	\$0	\$0	\$0
▲ CECS	\$2,312,337	\$4,552,250	\$4,491,993	\$6,801,390	\$6,884,901	\$4,060,134	\$2,056,473	\$2,727,528	\$2,530,289	\$1,510,408
× CHEPS	\$8,495,979	\$5,409,552	\$3,574,833	\$3,929,114	\$4,759,616	\$5,164,393	\$5,480,832	\$6,065,969	\$4,630,660	\$5,139,806
■ Admin	\$1,232,883	\$4,372,114	\$4,494,416	\$834,095	\$551,701	\$1,214,357	\$698,916	\$417,325	\$708,310	\$704,362
● Total Funding	\$13,413,361	\$15,166,818	\$13,984,180	\$13,392,750	\$15,515,266	\$12,257,725	\$10,157,139	\$10,174,862	\$9,270,122	\$8,063,813

**Notes:**

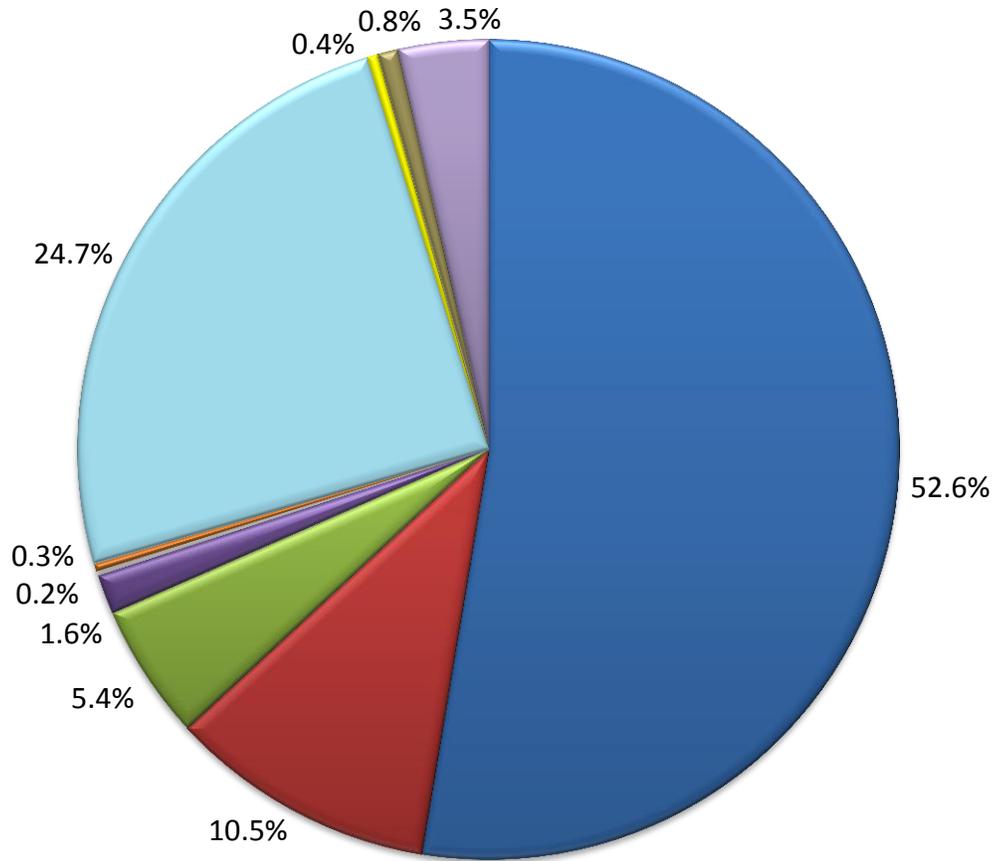
CAS = College of Arts & Sciences; COBA = College of Business Administration; CECS = College of Engineering & Computer Science; CHEPS = College of Health, Education, and Professional Studies; Admin = Administrative/Other Units.

# ARTS & SCIENCES



# ARTS & SCIENCES

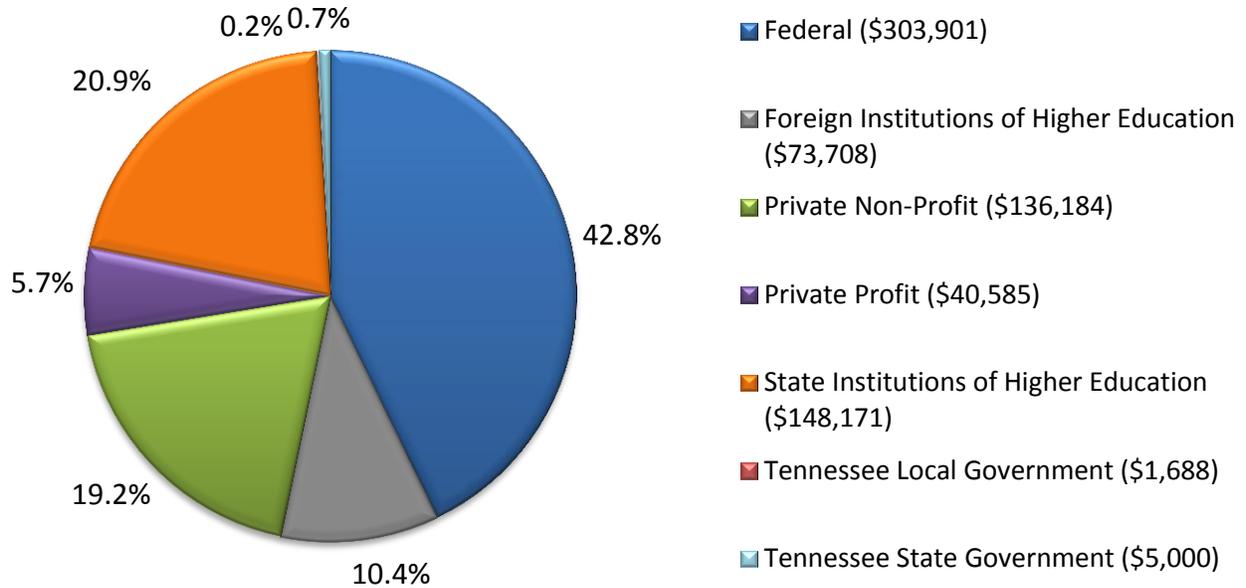
## Total CAS External Funding: \$709,237



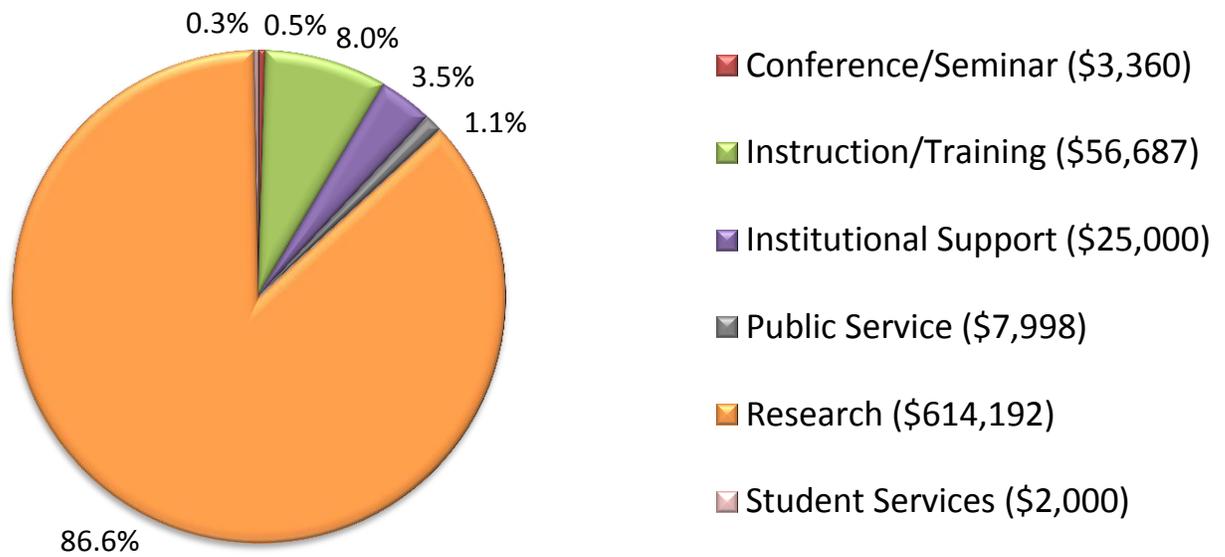
- Biological & Environmental Sciences (\$373,232)
- Chemistry (\$74,452)
- Criminal Justice (\$38,000)
- English (\$11,000)
- Music (\$1,360)
- Physics, Geology, & Astronomy (\$2,085)
- Psychology (\$175,308)
- Sociology, Anthropology & Geography (\$3,113)
- Southeast Center for Education in the Arts (\$5,687)
- STEM Education (\$25,000)

# ARTS & SCIENCES

## Awards by Source



## Awards by Functional Area



# ARTS & SCIENCES

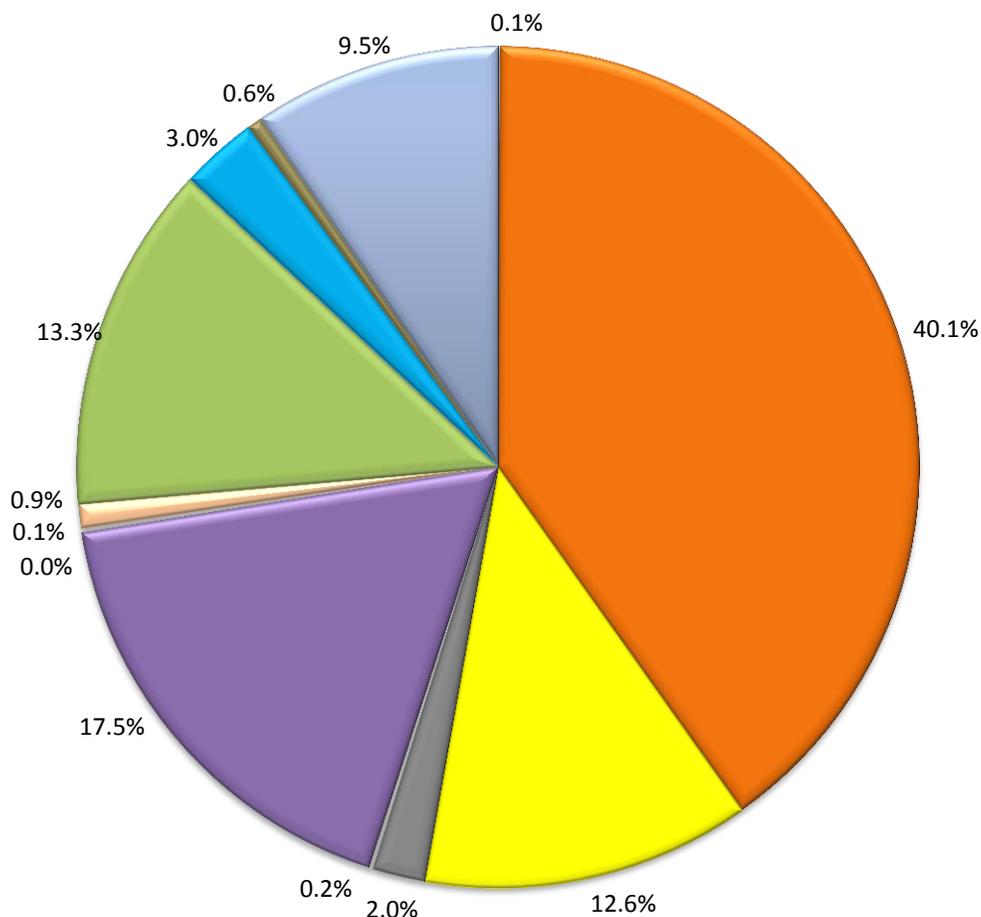
Notes: Functional Areas (FA): AS = Academic Services; C/S = Conference/Seminar; IS = Institutional Support; I/T = Instruction/Training; PS = Public Service; R = Research; S/F = Scholarships/Fellowships; SS = Student Services. Awards are listed alphabetically by administering department and name of the lead PI, but many awards represent the collaborative efforts of multiple investigators and departments/units.

Awards by Department				
Lead PI/PD	Funder	Title	Amount	FA
<b>Biological &amp; Environmental Sciences</b>				
Aborn, David	Tennessee River Gorge Trust	Assessing post-fledging survival and foraging habitat of Cerulean Warblers in the Tennessee River Gorge	\$3,712.00	R
Barbosa, Jose	Nephrogenesis	Efficacy of Lipocalin Mediated Binding and Displacement of Non-polar Uremic Toxins from Protein Binding Stores	\$38,500.00	R
Boyd, Jennifer	US Fish & Wildlife Service	How do light and soil moisture availability affect <i>Platanthera integrilabia</i> growth and reproduction?	\$2,737.00	R
Shaw, Joey	National Science Foundation	Digitization TCN: Collaborative Research: The Key to the Cabinets: Building and sustaining a research database for a global biodiversity hotspot	\$301,164.00	R
Kovach, Margaret	UT HSC	Nanofiber Based Bone Repair Device for Limb Salvage	\$27,119.00	R
<b>Chemistry</b>				
Lee, John	Research Corporation for Science Advancement	Acrylic Acid From CO <sub>2</sub> and Ethylene Catalyzed By Cyclopentadienyl-Co(III) With Bidentate N-Heterocyclic Carbene Ligands That Contain a Bridging Amine	\$40,000.00	R
Symes, Steven	UT HSC	Nanofiber Based Bone Repair Device for Limb Salvage	\$34,452.00	R
<b>Criminal Justice/Continuing Education</b>				
Reese, Virginia	Tennessee Coalition to End Domestic and Sexual Violence	Senator Tommy Burks Victim Assistance Academy	\$38,000.00	I/T
<b>English</b>				
Noe, Marcia	Society for the Study of Midwestern Literature	Editing journals - MidAmerica and Midwestern Miscellany - for the Society for the Study of Midwestern Literature	\$6,000.00	PS
Ingraham, Lauren	Tennessee Higher Education Commission	Core to College English Redesign Team	\$3,000.00	R
Lundgrin, Elaina	Community Foundation of Greater Chattanooga Incorporated	Student Veterans Writing Group	\$2,000.00	SS
<b>Music</b>				
Tejero, Nikolasa	ArtsBuild	River City Clarinet Winter Festival 2015	\$1,360.00	C/S

Awards by Department				
Lead PI/PD	Funder	Title	Amount	FA
<b>Physics, Geology, &amp; Astronomy</b>				
Mies, Jonathan	Chattem, Inc.	Chemical Analyses	\$2,085.00	R
<b>Psychology</b>				
Foerder, Preston	Community Foundation of Greater Chattanooga Incorporated	PRELIMINARY: Enrichment for Students and Animals: Using animal behavior to encourage STEM learning	\$0.00	I/T
		Enrichment for Students and Animals: Using animal behavior to encourage STEM learning	\$15,000.00	I/T
Cunningham, Christopher	University of Tennessee - Health Science Center	Transforming the Culture of Medical Education: Integrating Staff Chaplains into an Internal Medicine Training Program	\$3,408.00	R
Hood, Ralph	University of Tennessee - Knoxville	Beyond the Shroud: Discerning Jesus in the Mind's Eye	\$78,592.00	R
	Universitat Bielefeld	Developmental Change in Spirituality: Longitudinal study of faith biographies, religious schemata and their psychological correlates and predictors	\$4,600.00	R
<b>Sociology, Anthropology, &amp; Geography</b>				
Guo, Zibin	Community Foundation of Greater Chattanooga Incorporated	Seated/Wheelchair Tai Chi Instructor Training	\$1,998.00	PS
Honerkamp, Nicholas	St. Simons Land Trust	A Proposal for Archaeological Survey and Testing at Cannon's Point St. Simons	\$1,115.00	R
<b>Southeast Center for Education in the Arts</b>				
Burgess, Susanne	Alabama Institute for Education in the Arts	Music Makers: Ready Readers/Literacy and Music: Classroom Partners	\$750.00	I/T
Melnik, Laurie	Tennessee Arts Commission	2015 Arts and Education Forum	\$2,000.00	C/S
	Williamson County Schools	Production and Pedagogy: The balance between performance and process.	\$1,688.00	I/T
	Love Fellowship Baptist Church	Reader's Theater Camp Sessions	\$999.00	I/T
	Hunter Museum of American Art	The Art of Diagnosis: Increasing Medical Practitioner's Self-Awareness through Applied Drama and Visual Art.	\$250.00	I/T
<b>STEM Education</b>				
Kovach, Margaret	George R. Johnson Family Foundation	UTC STEM Education Program	\$25,000.00	IS
<b>Arts &amp; Sciences Total Dollars Awarded: \$709,237</b>				

# ARTS & SCIENCES

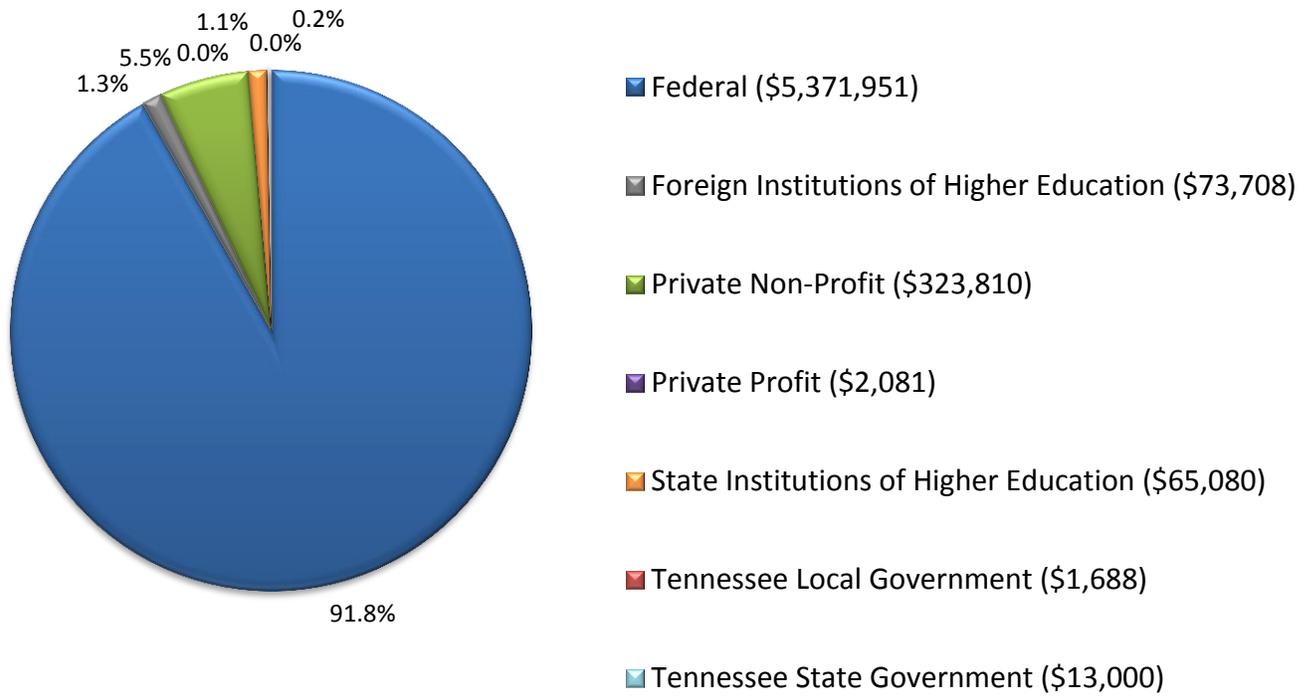
**Total CAS Funds Requested: \$5,851,317**



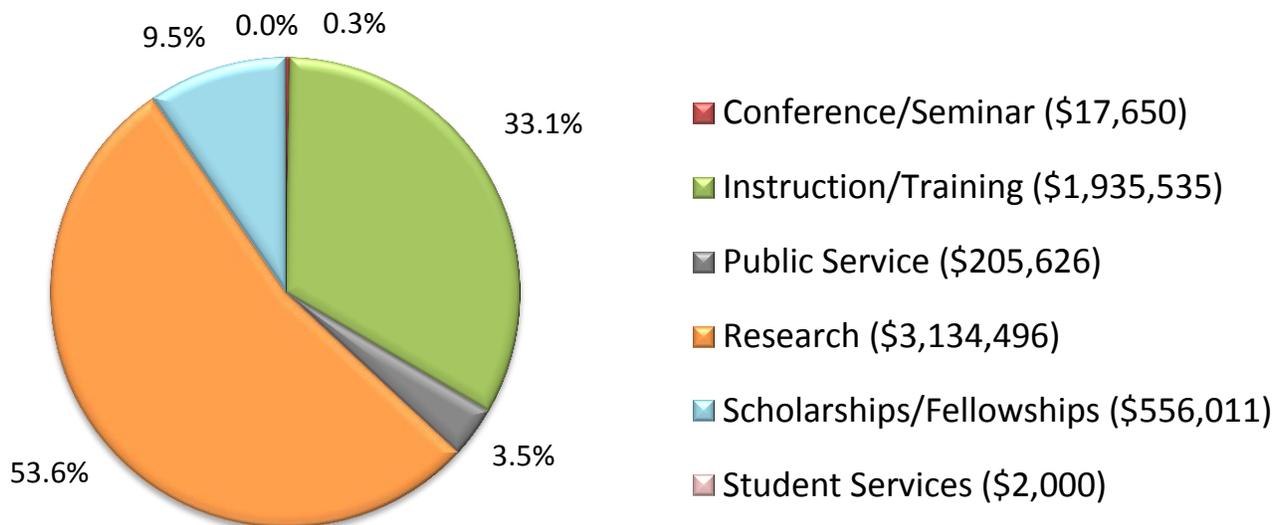
- Art (\$6,000)
- Biological & Environmental Sciences (\$2,344,346)
- Chemistry (\$738,151)
- Criminal Justice (\$117,042)
- English (\$11,000)
- Mathematics (\$1,025,078)
- Music (\$7,650)
- Physics, Geology & Astronomy (\$2,081)
- Political Science, Public Admin & Nonprofit Mgmt (\$55,040)
- Psychology (\$780,492)
- Sociology, Anthropology & Geography (\$174,890)
- Southeast Center for Education in the Arts (\$33,535)
- STEM Education (\$556,011)

# ARTS & SCIENCES

## Submissions by Source



## Submissions by Functional Area



# ARTS & SCIENCES

Notes: Functional Areas (FA): AS = Academic Services; C/S = Conference/Seminar; IS = Institutional Support; I/T = Instruction/Training; PS = Public Service; R = Research; S/F = Scholarships/Fellowships; SS = Student Services. Awards are listed alphabetically by administering department and name of the lead PI, but many awards represent the collaborative efforts of multiple investigators and departments/units.

Submissions by Department				
Lead PI/PD	Funder	Title	Amount	FA
<b>Art</b>				
Grover, Ruth	National Endowment for the Humanities	Conservation of Collected Artworks on Paper at the University of Tennessee at Chattanooga	\$6,000.00	PS
<b>Biological &amp; Environmental Sciences</b>				
Aborn, David	Tennessee River Gorge Trust	Assessing post-fledging survival and foraging habitat of Cerulean Warblers in the Tennessee River Gorge	\$3,711.96	R
Boyd, Jennifer	US Fish & Wildlife Service	How do light and soil moisture availability affect <i>Plantanthera integrilabia</i> and its co-occurring congeners?	\$2,736.40	R
	National Science Foundation	PRELIMINARY: Intraspecific variability of Appalachian and Great Plains plant species: latitudinal clines and consequences in a warming climate	\$0.00	R
Carver, Ethan	National Institutes of Health	Using Existing Zebrafish Mutants to Study Muscle Development	\$255,146.10	R
Chatzimanolis, Stylianos	National Science Foundation	PRELIMINARY: RUI: ARTS: Revisionary systematics of xanthopygine rove beetles: the role of myrmecophily in the evolution of a major Neotropical lineage.	\$0.00	R
Gaudin, Timothy	National Science Foundation	PRELIMINARY: In search of the ancestors of the two-toed sloth: phylogeny of the Megalonychidae (Mammalia, Xenarthra, Folivora) and the early history of sloths in South America	\$0.00	R
Hayes, Loren	National Science Foundation	PRELIMINARY: RUI: Spatiotemporal ecological variation and mammalian plural breeding: An integrative, comparative, and manipulative approach	\$0.00	R
	National Geographic Society-Committee for Research and Explo	Why sociality?: Benefits of living in groups when conditions are harsh or unpredictable	\$18,362.00	R
Kajita, Yukie	National Science Foundation	Bio-Socio-Economic Aspects of Managing Invasive Hemlock Woolly Adelgids in a Southern Hemlock Refugium	\$764,174.85	R
		EI: Integrating Geospatial Technology and Computer Science for Real-World Environmental Problem Solving	\$633,070.52	I/T

Submissions by Department				
Lead PI/PD	Funder	Title	Amount	FA
Klug, Hope	National Science Foundation	PRELIMINARY: Overcoming Evolutionary History: Learning as a Mechanism to Escape Evolutionary Traps	\$0.00	R
Kovach, Margaret	University of Tennessee - Health Science Center	Nanofiber Based Bone Repair Device for Limb Salvage	\$27,220.00	R
Richards, Sean	National Institute of Environmental Sciences	Lead Exposure and Effects on Placental 11BHSdII activity and Low Birth Weight in Hamilton County, TN	\$390,989.86	R
Wilson, Thomas	National Science Foundation	Integrating Hands-on Herpetology with the SMART Approach to STEM Education	\$248,934.55	I/T
Chemistry				
Lee, John	Research Corporation for Science Advancement	Acrylic Acid From CO2 and Ethylene Catalyzed By Cyclopentadienyl-Co(III) With Bidentate N-Heterocyclic Carbene Ligands That Contain a Bridging Amine	\$40,000.00	R
	American Chemical Society	Synthesis, Characterization and Reactivity of Ruthenium(II) Complexes Supported by Electron-Rich Aromatic Ligands for Small Molecule Activation and Catalysis	\$55,000.00	R
Park, Han Jung	Oak Ridge Associated Universities	Piezoresponse force microscopic study of electrodes surface morphology	\$5,000.00	R
Santiago, Manuel	National Science Foundation	REU Site - Collaborative Interdisciplinary Research Program	\$341,970.93	R
Symes, Steven	National Science Foundation	MRI: Acquisition of ICP-MS for Use in Environmental, Geochemical, and Human Health Research at UTC	\$261,728.00	R
	University of Tennessee - Health Science Center	Nanofiber Based Bone Repair Device for Limb Salvage	\$34,452.32	R
Criminal Justice/Continuing Education				
Park, Seong	US Dept. of Justice	Interactive Effect of Perpetrators' Violence and Victims' Propensity on the Distribution of Sexual Victimization: Comparative Zero-inflated Analysis of the 2010 NISVS and the 2010 KNSVS	\$39,982.25	R
	National Institute of Justice	Patterns of Criminal Victimization: Group-based Trajectories and Repeat Measure Zero-inflated Analysis of the 2009-2013 NCVSs	\$39,060.21	R
Reese, Virginia	Tennessee Coalition to End Domestic and Sexual Violence	2015 Senator Tommy Burks Victim Assistance Academy	\$37,999.72	I/T
English				
Ingraham, Lauren	Tennessee Higher Education Commission	Core to College English Redesign Team	\$3,000.00	R

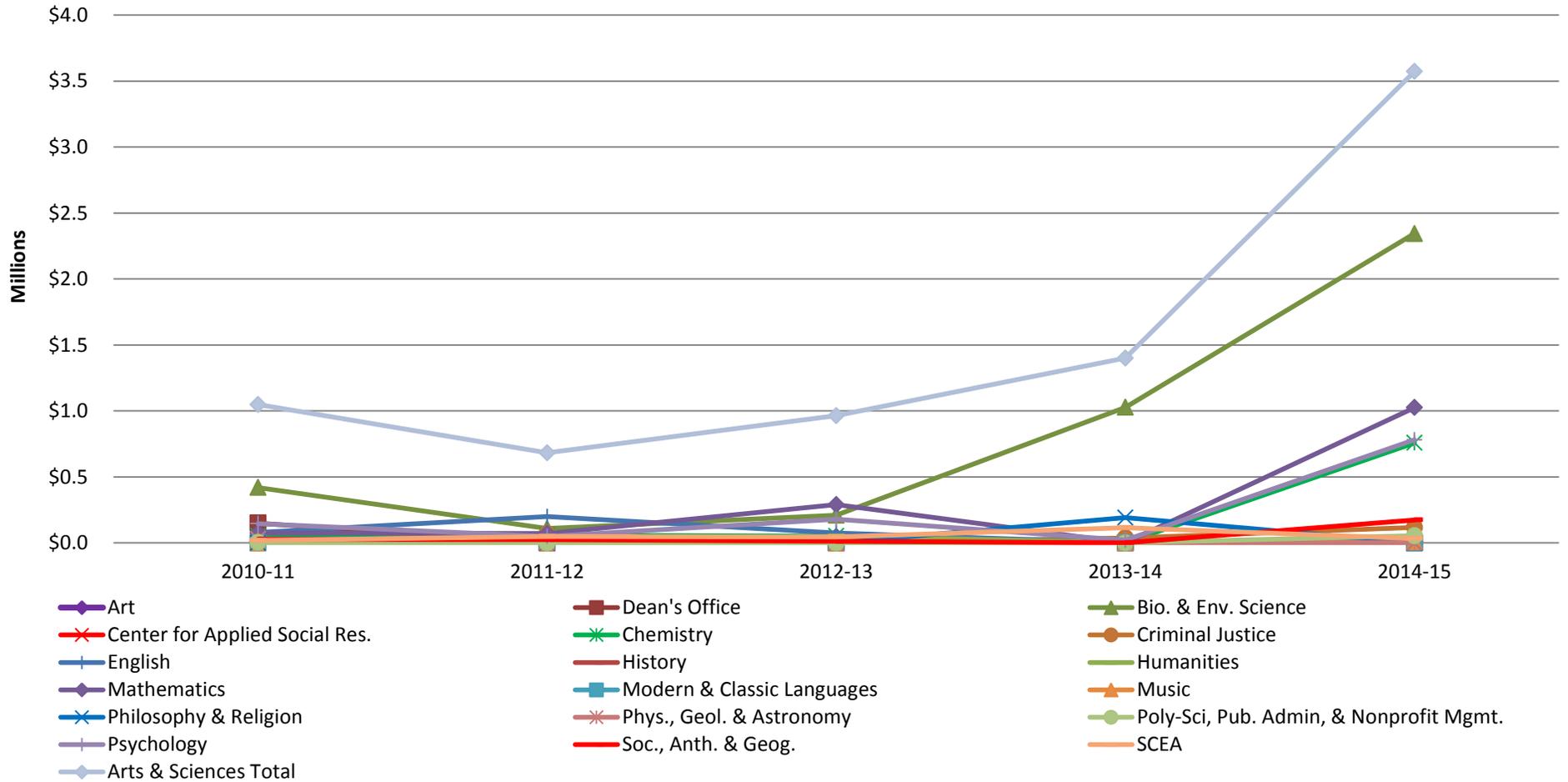
Submissions by Department				
Lead PI/PD	Funder	Title	Amount	FA
Lundgrin, Elaina	Community Foundation of Greater Chattanooga Incorporated	Student Veterans Writing Group	\$2,000.00	SS
Noe, Marcia	Society for the Study of Midwestern Literature	Editing journals - MidAmerica and Midwestern Miscellany - for the Society for the Study of Midwestern Literature	\$6,000.48	PS
Mathematics				
Nichols, Roger	Simons Foundation	Spectral Theory of Differential Operators	\$33,160.00	R
Wang, Jin	National Science Foundation	An Engineering Math Program for Early-Stage Undergraduates	\$249,099.00	I/T
		I-Math: Interdisciplinary Math I/T at UTC	\$742,818.79	I/T
Music				
Harris, Lee	Community Foundation of Greater Chattanooga Incorporated	2015 Kodaly Institute at UTC	\$5,949.72	C/S
		PRELIMINARY: 2015 Kodaly Institute at UTC	\$0.00	C/S
Tejero, Nikolasa	ArtsBuild	River City Clarinet Winter Festival 2015	\$1,700.00	C/S
Physics, Geology, & Astronomy				
Mies, Jonathan	Chattem, Inc.	Chattem XRD Analyses 2015-16	\$2,080.80	R
Political Science, Public Administration, & Nonprofit Management				
Bannerjee, Vasabjit	Smith Richardson Foundation, Inc.	The Iron-Law of Peasant Revolutions - Book Proposal	\$55,039.60	R
Psychology				
Cunningham, Christopher	University of Tennessee - Health Science Center	Transforming the Culture of Medical Education: Integrating Staff Chaplains into an Internal Medicine I/T Program	\$3,408.00	R
Foerder, Preston	Community Foundation of Greater Chattanooga Incorporated	Enrichment for Students and Animals: Using animal behavior to encourage STEM learning	\$19,926.00	I/T
		PRELIMINARY: Enrichment for Students and Animals: Using animal behavior to encourage STEM learning	\$0.00	I/T
Hood, Ralph	Universitat Bielefeld	Developmental Change in Spirituality: Longitudinal study of faith biographies, religious schemata and their psychological correlates and predictors	\$73,708.10	R
Ozbek, Irene	University of Tennessee Research Foundation (UTRF)	Improved Marketability of the Wheeler Odor Threshold Test	\$15,000.00	R
	National Science Foundation	PRELIMINARY: Cracking the Olfactory Code	\$0.00	R

Submissions by Department				
Lead PI/PD	Funder	Title	Amount	FA
Shelton, Jill	National Science Foundation	CAREER: Isolating the Cognitive Mechanisms Supporting Prospective Memory Using Behavioral and Eye-tracking Methods	\$668,450.17	R
<b>Sociology, Anthropology, &amp; Geography</b>				
Guo, Zibin	Community Foundation of Greater Chattanooga Incorporated	Seated/Wheelchair Tai Chi Instructor I/T	\$1,998.00	PS
	US Dept. of Veteran's Affairs	Wheelchair Tai Chi Program for Disabled Veterans	\$171,777.90	PS
Honerkamp, Nicholas	St. Simons Land Trust	A Proposal for Archaeological Bounding at 9GN21, Cannon's Point Preserve, St. Simons Island, Georgia	\$1,114.56	R
<b>Southeast Center for Education in the Arts</b>				
Burgess, Susanne	Community Foundation of Greater Chattanooga Incorporated	Music Makers - Ready Readers	\$19,849.32	PS
		PRELIMINARY: Literacy, Music, and Early Learning	\$0.00	I/T
	Alabama Institute for Education in the Arts	MusicMakers:Ready Readers/Literacy and Music: Classroom Partners	\$749.52	I/T
Melnik, Laurie	Tennessee Arts Commission	9th Annual Arts & Education Forum	\$10,000.00	C/S
	Williamson County Schools	Production and Pedagogy: The balance between performance and process.	\$1,688.04	I/T
	Love Fellowship Baptist Church	Reader's Theater Camp Sessions	\$999.00	I/T
	Hunter Museum of American Art	The Art of Diagnosis: Increasing Medical Practitioner's Self-Awareness through Applied Drama and Visual Art.	\$249.48	I/T
<b>STEM Education</b>				
Kovach, Margaret	National Science Foundation	Scholarships for Success in STEM Education	\$556,011.12	S/F
<b>Arts &amp; Sciences Total Dollars Requested = \$5,851,317</b>				

# ARTS & SCIENCES

## FIVE-YEAR FUNDING TRENDS BY DEPARTMENT

### FISCAL YEARS 2011 - 2015





# BUSINESS

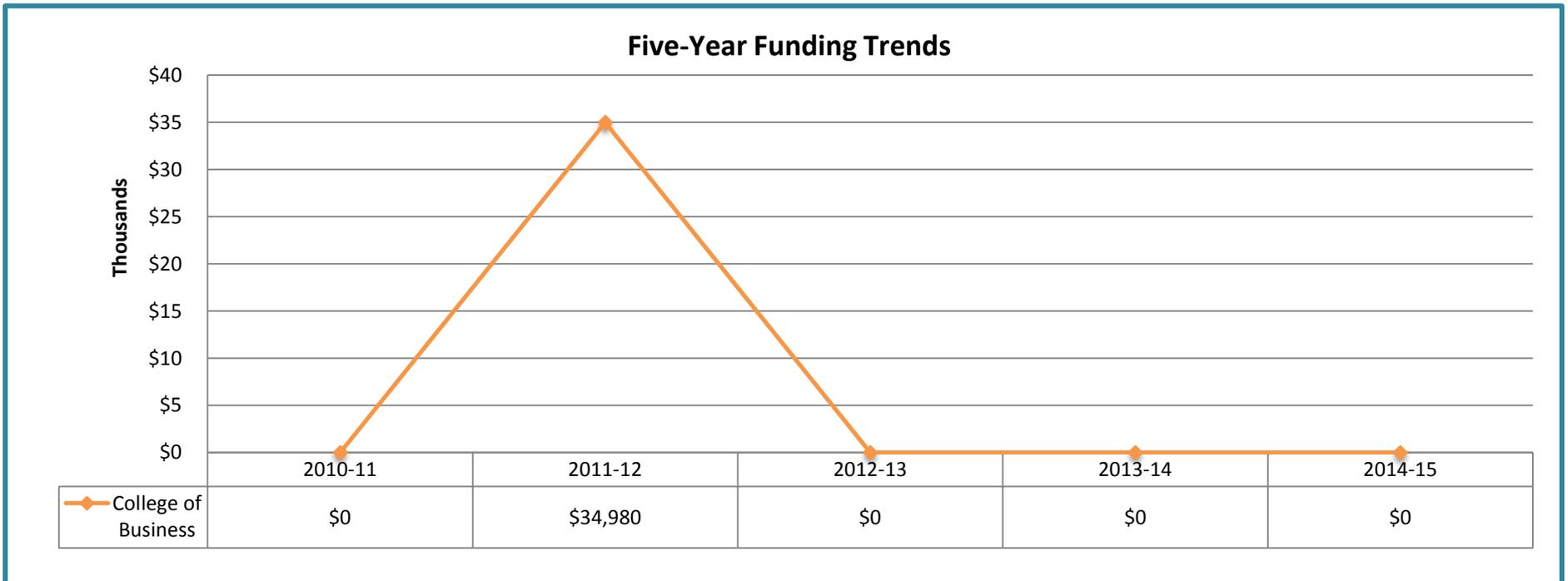


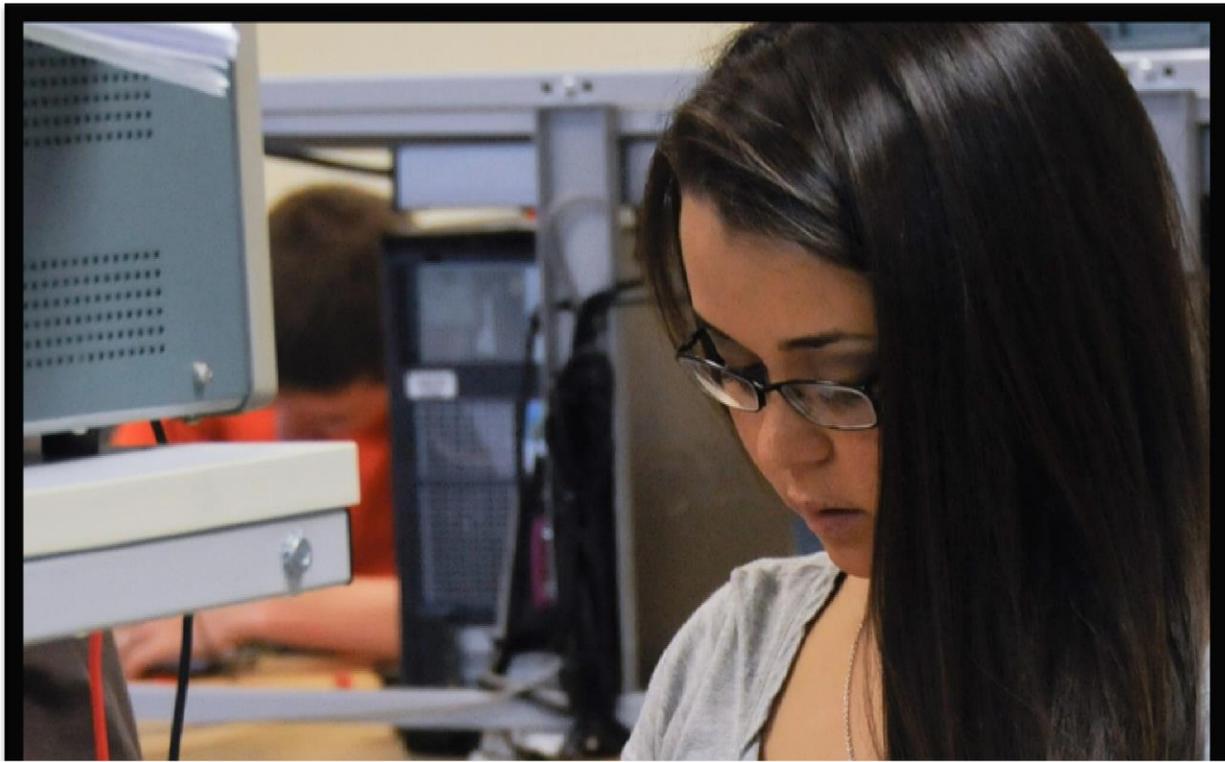
# COLLEGE OF BUSINESS

**FY 2015 External Funding: \$0**

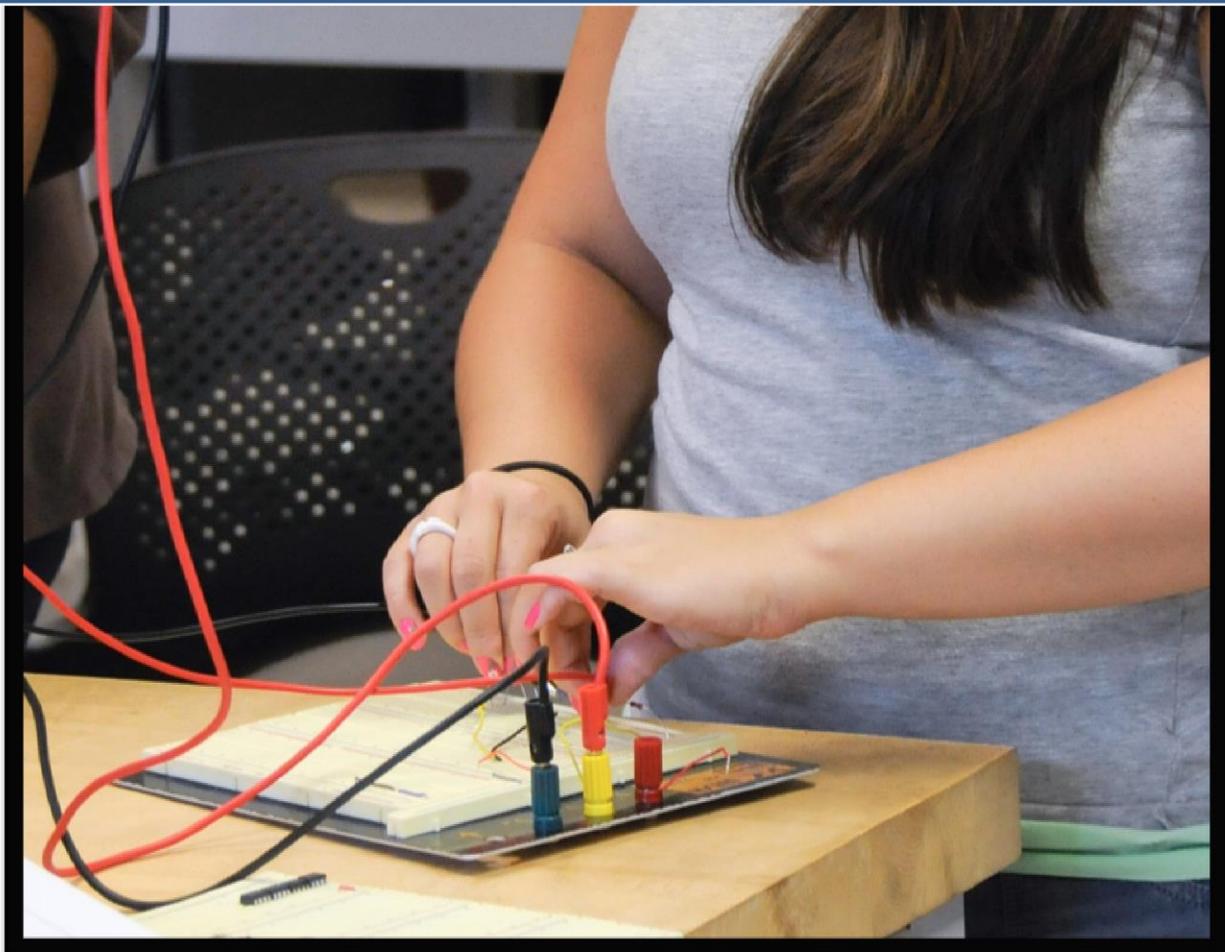
**FY 2015 External Funds Requested: \$137,815**

College of Business Submission				
Lead PI	Funder	Title	Amount	FA
Gupta, Ashish	Morgan State University	University of Maryland Medical Center - Midtown Campus Emergency Dept Electronic Medical Record Implementation Project	\$137,815.00	R



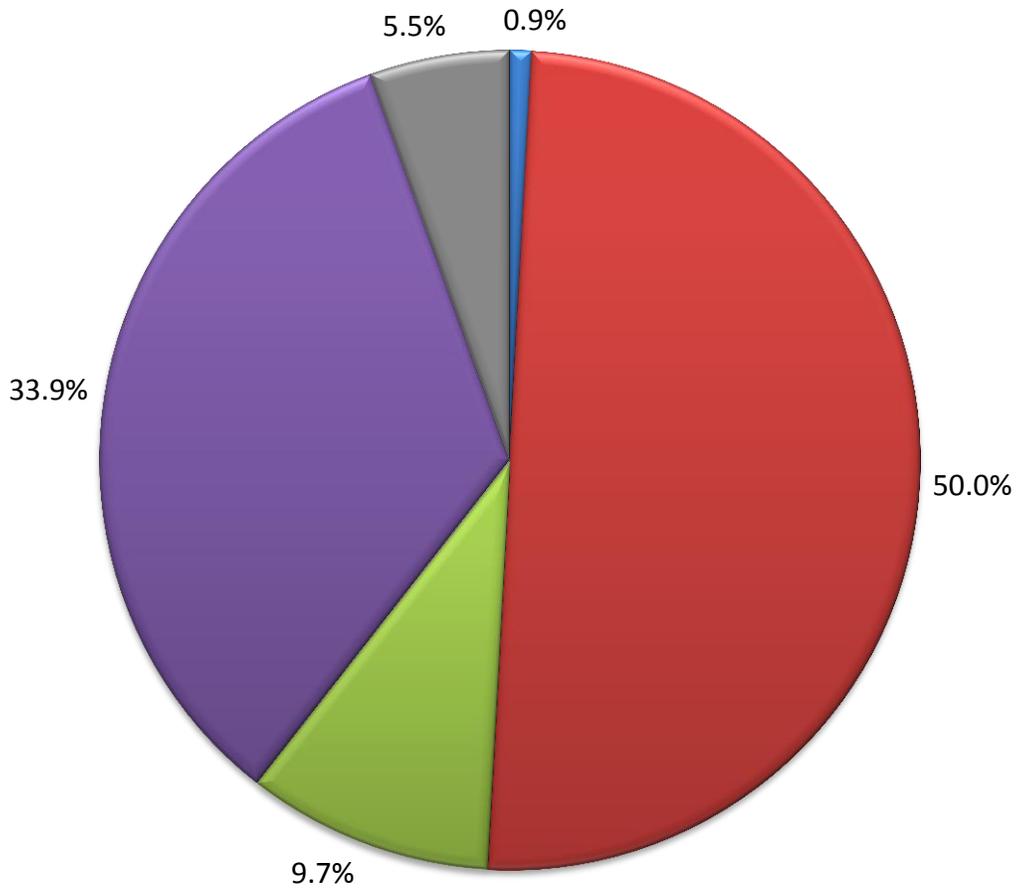


# ENGINEERING & COMPUTER SCIENCE



# ENGINEERING & COMPUTER SCIENCE

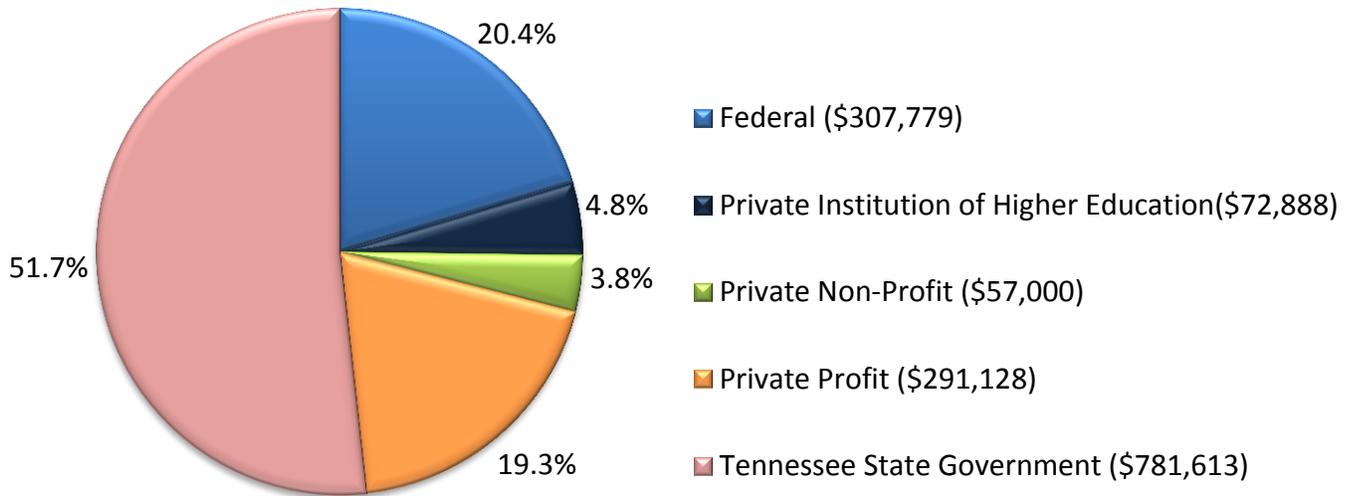
**Total CECS External Funding: \$1,510,408**



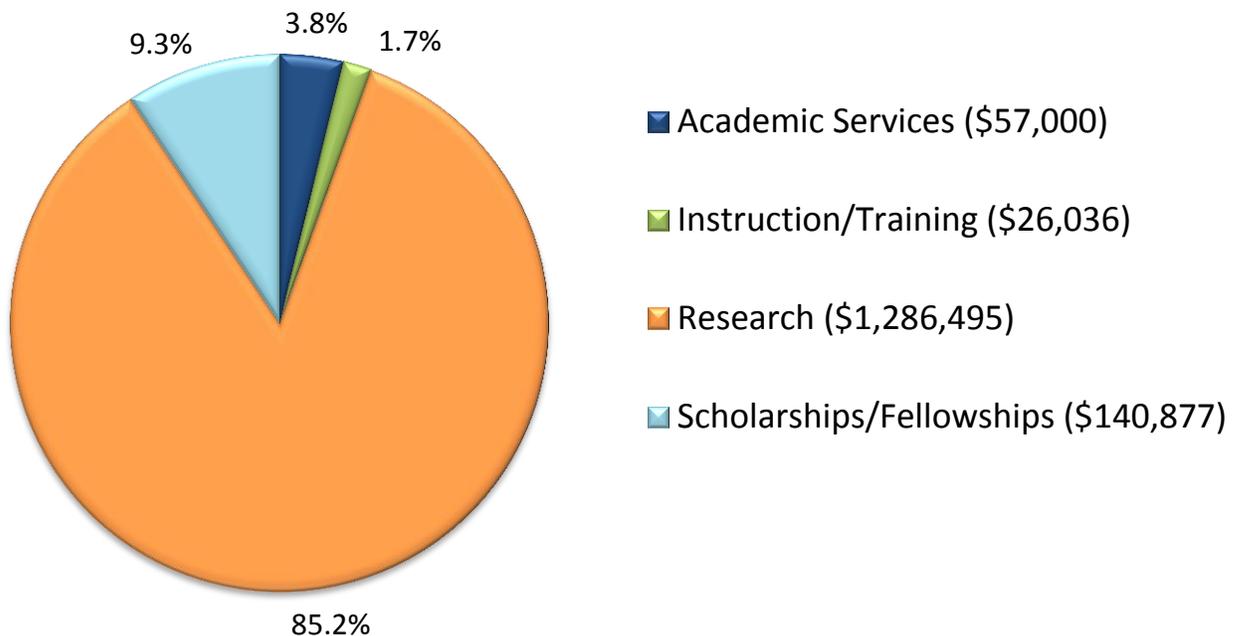
- Civil, Chemical, & General Engineering (\$12,954)
- College of Engineering (\$755,577)
- Electrical Engineering (\$146,290)
- Graduate School of Computational Engineering (\$512,551)
- Mechanical Engineering (\$83,036)

# ENGINEERING & COMPUTER SCIENCE

## Awards by Source



## Awards by Functional Area



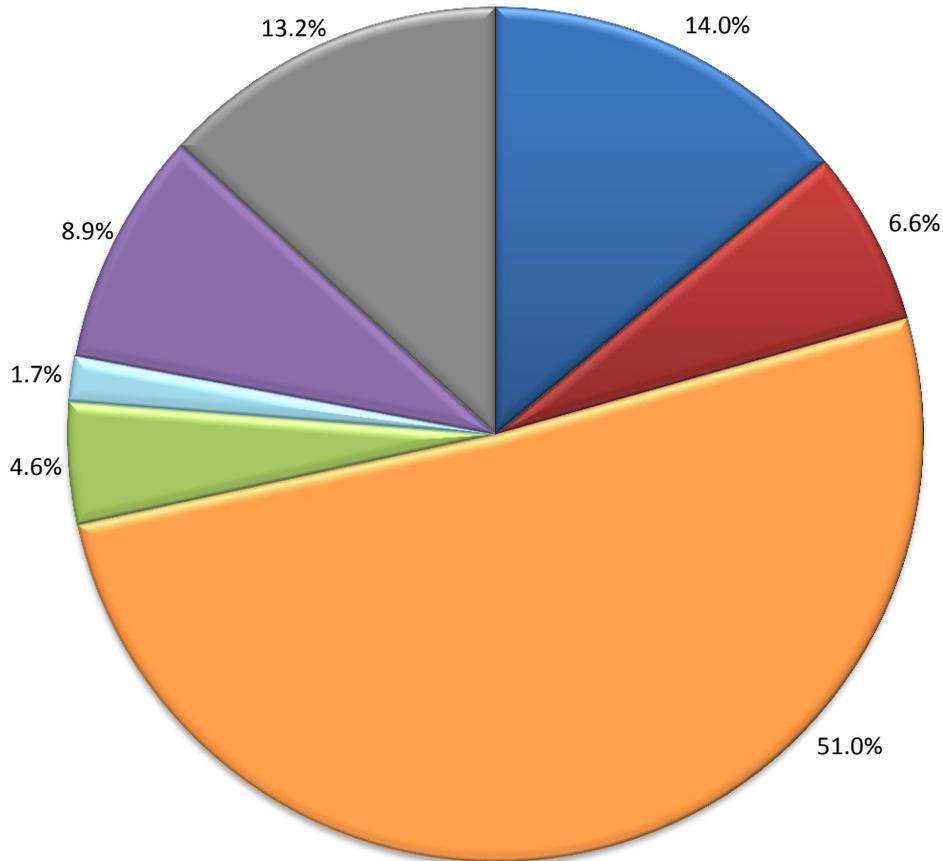
# ENGINEERING & COMPUTER SCIENCE

Notes: Functional Areas (FA): AS = Academic Services; C/S = Conference/Seminar; IS = Institutional Support; I/T = Instruction/Training; PS = Public Service; R = Research; S/F = Scholarships/Fellowships; SS = Student Services. Awards are listed alphabetically by administering department and name of the lead PI, but many awards represent the collaborative efforts of multiple investigators and departments/units.

Awards by Department				
PI	Sponsor	Title	Amount	FA
<b>Civil, Chemical &amp; General Engineering</b>				
Rollins, Alex	Spray-Lock Concrete Protection LLC	Resistance of Colloidal Silica-Treated Concrete to Microbe-Generated H2SO4	\$12,954.00	R
<b>College of Engineering</b>				
Alp, Neslihan	Tennessee Higher Education Commission	Center of Excellence in Applied Computational Science and Engineering	\$755,577.00	R
<b>Electrical Engineering</b>				
Eltom, Ahmed	Tennessee Valley Authority	Study of Geomagnetically Induced Current due to Geomagnetic Disturbances	\$35,000.00	R
		Study of Geomagnetically Induced Current due to Geomagnetic Disturbances Phase III	\$38,402.00	R
Loveless, Daniel	Vanderbilt University	Radiation Hardening of Low-Voltage Analog and Mixed-Signal Circuits in Sub-32 nm Technology Nodes	\$72,888.00	R
<b>Graduate School of Computational Engineering</b>				
Anderson, William	High Performance Technologies Inc.	Investigation of Unstructured Higher-Order Methods for Unsteady Flow	\$48,000.00	R
Hilbert, Christopher	UT-Battelle - Oak Ridge National Laboratory	Grid Consultation Services for CASL (Consortium for Advanced Simulation of Light Water Reactors)	\$13,500.00	R
Newman, James	High Performance Technologies Inc.	Investigation of Unstructured Higher-Order Methods for Unsteady Flow	\$72,000.00	R
Nichols, Stephen	CHI Engineering	Physics-Based Simulation of Potential LNG Spillage	\$136,882.00	R
Sreenivas, Kidambi	Office Of Naval Research	Adaptive Meshing of Ship Air-Wake Flowfields	\$80,000.00	R
	SmartTruck Systems, LLC	Simulation for TopKit Drag Reduction Device	\$10,643.00	R
		Simulation of Drag Reduction Devices for Smart Truck Systems	\$10,649.00	R
Sutton, William	US Dept. of Education	Graduate Student Resources to Support Growth in Computational Engineering	\$140,877.00	S/F
<b>Mechanical Engineering</b>				
Elliott, Trevor	Denso North America Foundation	Baja SAE Capstone Project	\$47,000.00	AS
Goulet, Ronald	Denso North America Foundation	MiniBaja Capstone Project	\$10,000.00	AS
McDonald, Gary	Tennessee Board of Architectural and Engineering Examiners	TBAEE Instructional Equipment Grant for Mechanical Engineering	\$26,036.00	I/T
<b>Engineering &amp; Computer Science Total Dollars Awarded = \$1,510,408</b>				

# ENGINEERING & COMPUTER SCIENCE

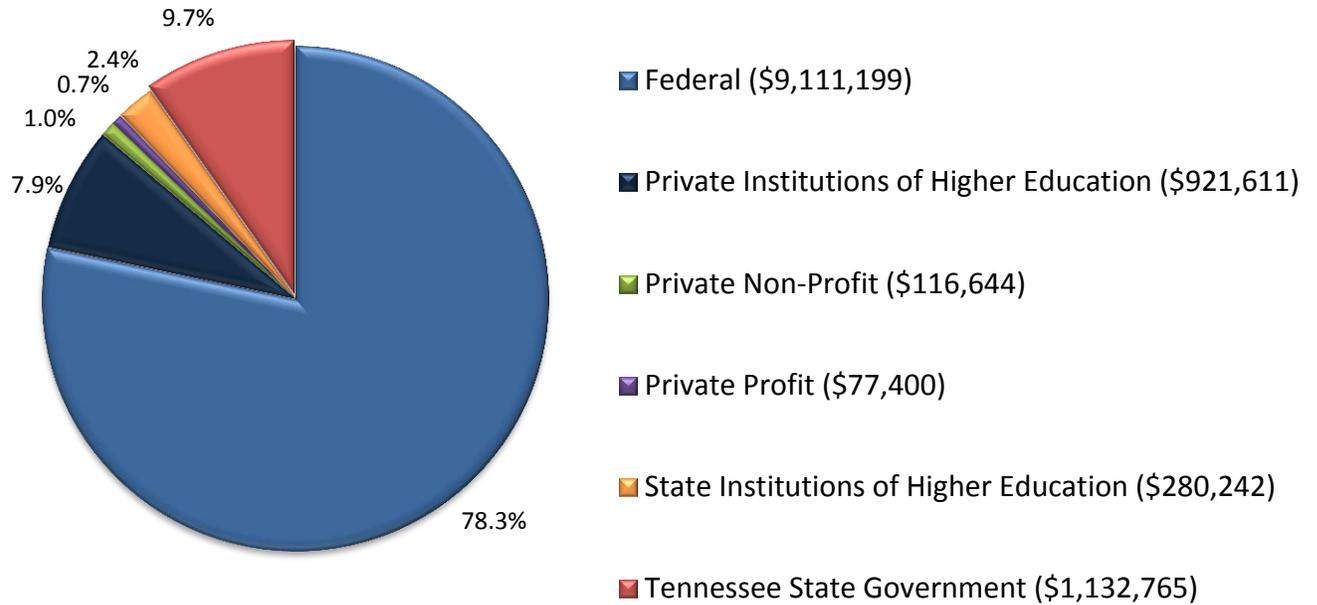
**Total CECS External Funds Requested:  
\$11,639,861**



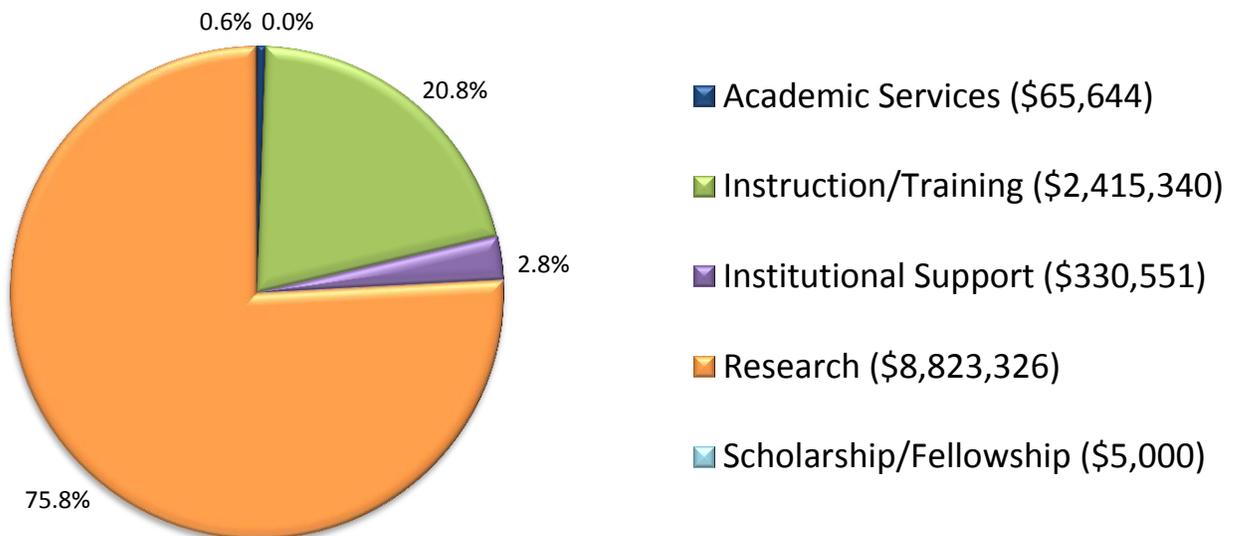
- Civil, Chemical, & General Engineering (\$1,627,315)
- College of Engineering (\$773,015)
- Computer Science (\$5,935,562)
- Electrical Engineering (\$536,316)
- Engineering Management & Technology (\$199,999)
- Graduate School of Computational Engineering (\$1,032,608)
- Mechanical Engineering (\$1,535,046)

# ENGINEERING & COMPUTER SCIENCE

## Submissions by Source



## Submissions by Functional Area



# ENGINEERING & COMPUTER SCIENCE

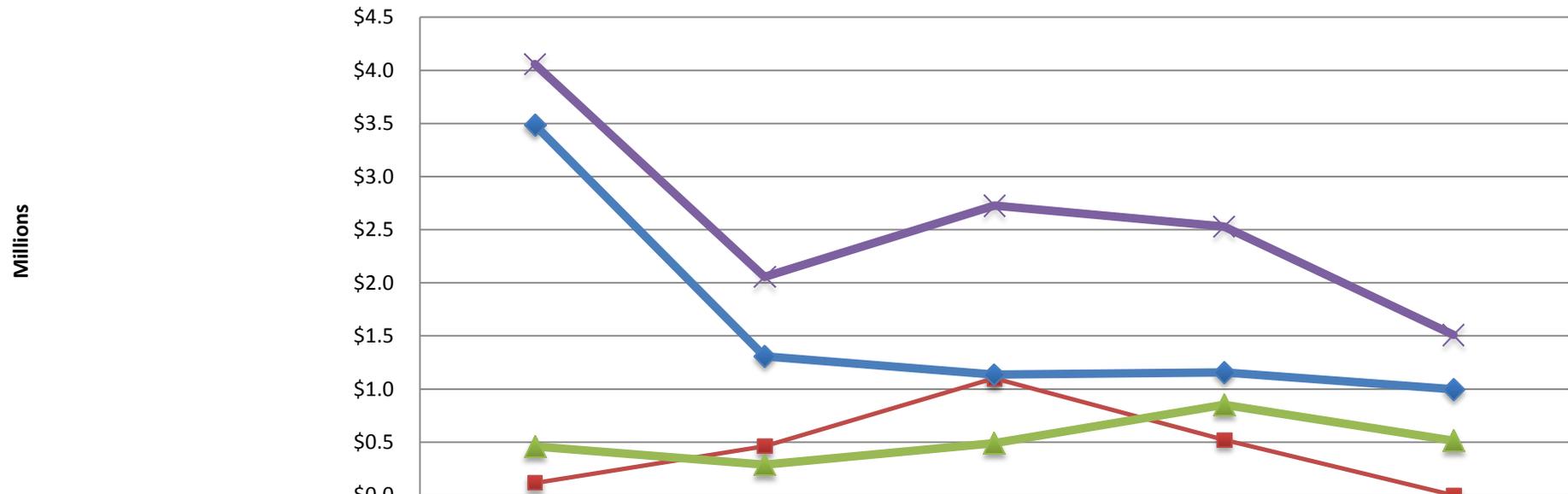
Notes: Functional Areas (FA): AS = Academic Services; C/S = Conference/Seminar; IS = Institutional Support; I/T = Instruction/Training; PS = Public Service; R = Research; S/F = Scholarships/Fellowships; SS = Student Services. Awards are listed alphabetically by administering department and name of the lead PI, but many awards represent the collaborative efforts of multiple investigators and departments/units.

Submissions by Department				
Lead PI/PD	Funder	Title	Amount	FA
<b>Civil, Chemical, &amp; General Engineering</b>				
Ennis, Bryan	National Science Foundation	MRI Acquisition: High Resolution QICPIC Imager for Particle Shape Characterization to Optimize Design of Particle Packing and Granular Flows	\$330,551.00	IS
Onyango, Mbakisya	University of Tennessee - Knoxville	Evaluation of Geosynthetics Reinforcement in Flexible Pavement Structures Using Accelerated Pavement Testing	\$45,950.55	R
	National Science Foundation	Securing the Pipeline for Undergraduate Engineering Education (SPUE) Using Data Analytics	\$249,936.38	R
	Federal Highway Administration	Southeastern Region Surface Transportation Workforce Center at the University of Tennessee at Chattanooga	\$987,765.71	I/T
Rollins, Brent	Spray-Lock Concrete Protection LLC	Resistance of Colloidal Silica-Treated Concrete to Microbe-Generated H2SO4	\$13,111.77	R
<b>College of Engineering</b>				
Alp, Neslihan	Tennessee Higher Education Commission	Center of Excellence in Applied Computational Science and Engineering	\$773,015.00	R
<b>Computer Science &amp; Engineering</b>				
Kandah, Farah	National Science Foundation	IRNC: ENgage - Research and Education Development of Open Virtual Laboratories, Networked for the Global Community (R&E DOVLab)	\$2,147,531.56	R
		VEC: Medium: Improving Safety in High-Crime Neighborhoods Using Cyber-Physical Systems	\$1,003,277.59	R
		WECAAN: Wide Emergency Crowdsourced Automated Adaptive Networking System	\$598,618.67	R
Kizza, Joseph	National Science Foundation	CyberSEES: Type 1: A Framework for an African Health Virus Monitoring and Early Warning Systems Using Big Data Analytics and Predictive Platforms (FAMWSAP)	\$399,956.08	R
	Cyber Research Institute	PRELIMINARY: Simulation of Trust and Distrust Propagation in Airborne Networks Authentication	\$0.00	R
Liang, Yu	Community Foundation of Greater Chattanooga	Improving safety in high-crime neighborhoods using cyber-physical systems	\$30,000.00	R
	National Science Foundation	PRELIMINARY: STC Big data Center: Enrichment, Extraction, and Application to Management of Aging Bridges	\$0.00	R

Submissions by Department				
Lead PI/PD	Funder	Title	Amount	FA
McCullough, Claire	Alliance of Women Philanthropists - Giving Circle	Building Community to Increase Women's Participation in Computer Science	\$8,644.00	AS
Sartipi, Mina	National Science Foundation	Collaborative Research: Efficient and Dynamic Spectrum Access for Millimeter Wave Communications in Hyper-Dense Small Cell Networks	\$352,530.88	R
		CyberSEES: Collaborative Research: Type 1: Scalable and Asset-Aware Automation Framework for Manufacturing Systems	\$199,784.24	R
	Georgia Tech Research Institute	Photonics, Electronics, and DSP Study (PEDS) for HERMES	\$234,291.41	R
	US Dept. of Energy	Sustainability-Centric Design of an Observable and Intelligent Energy Delivery Network	\$0.00	R
Tanis, Craig	National Science Foundation	Splatter Domain Improvement	\$273,649.78	R
Wu, Dalei	Oak Ridge Associated Universities	High-Confidence Infrastructure-Less Video Surveillance Powered by Hybrid Wind/Solar Energy	\$5,000.00	S/F
Yang, Li	National Security Agency Central Security Service	Exploring IA Pedagogical Approaches and Building IA Resource Portal through Faculty Collaboration	\$294,378.18	I/T
	Polytechnic University of Puerto Rico	Polytechnic University of Puerto Rico Center of Ex-celence in Cyber Security	\$387,900.00	R
<b>Electrical Engineering</b>				
Eltom, Ahmed	Tennessee Valley Authority	Phase I for Study of Geomagnetically Induced Current due to Geomagnetic Disturbances	\$35,000.00	R
		Phase II for Study of Geomagnetically Induced Current due to Geomagnetic Disturbances	\$38,402.19	R
Loveless, Daniel	Vanderbilt University	Radiation Hardening of Low-Voltage Analog and Mixed-Signal Circuits in Sub-32 nm Technology Nodes	\$72,888.33	R
Reising, Donald	Department of the Air Force	Electronic Battlespace Awareness through Distinct and Native Radio Frequency Features	\$331,028.43	R
	GIRD Systems, Inc.	Exploitation Algorithms in the Compressive Sensing (Sparse Measurement) Space	\$42,996.82	R
	Southeastern Center for Electrical Engineering Education	RF-DNA Fingerprinting In The Presence of Multipath Channel Interference	\$16,000.00	R
<b>Engineering Management &amp; Technology</b>				
Wang, Endong	National Science Foundation	CyberSEES: Type 2: Collaborative Research: Framework of Big Data-based Techniques for Assessing Sustainability of Post-Occupied Built Environments	\$199,998.58	R

Submissions by Department				
Lead PI/PD	Funder	Title	Amount	FA
<b>Graduate School of Computational Engineering</b>				
Hilbert, Christopher	UT-Battelle - Oak Ridge National Laboratory	Grid Consultation Services for CASL (Consortium for Advanced Simulation of Light Water Reactors)	\$13,499.91	R
Newman, James	NASA - Langley Research Center	Nonlinear Aero-Structural Interaction, Analysis, and Design Sensitivity	\$244,389.57	R
Pankajakshan, Ramesh	National Science Foundation	Design Optimization for Particle-laden Flows	\$292,604.07	R
Sreenivas, Kidambi	Purdue University	Optimization of Turbine Blade Tip with Cooling	\$238,822.32	R
	SmartTruck Systems, LLC	Simulation for TopKit Drag Reduction Device	\$10,642.93	R
		Simulation of Drag Reduction Devices for Smart Truck Systems	\$10,648.61	R
Wang, Li	University of Miami	High Fidelity Nonlinear Aeroelasticity Analysis and Design tool with Adjoint Sensitivity Calculation	\$222,000.31	R
<b>Mechanical Engineering</b>				
Elliott, Trevor	Denso North America Foundation	Baja SAE Capstone Project	\$47,000.00	AS
	US Environmental Protection Agency	Living Storm Water Management Showcase in the Greater Chattanooga Area	\$15,000.00	R
	Tennessee Department of Environment and Conservation	Peak and Base Load Reduction Showcase at the UT Chattanooga (UTC) Center for Energy, Transportation and the Environment (CETE)	\$329,850.00	R
Goulet, Ronald	Denso North America Foundation	MiniBaja Capstone Project	\$10,000.00	AS
Margraves, Charles	National Science Foundation	Introduction to Sustainability: Using a Zero+ Energy Building as a Living Laboratory for Middle School Students (ITEST-Strategies)	\$1,103,296.18	I/T
McDonald, Gary	Tennessee Board of Architectural and Engineering Examiners	TBAEE I/Tal Equipment Grant for Mechanical Engineering	\$29,900.00	I/T
<b>Engineering &amp; Computer Science Total Dollars Requested = \$11,639,861</b>				

# ENGINEERING & COMPUTER SCIENCE FIVE-YEAR FUNDING TRENDS BY DEPARTMENT FISCAL YEARS 2011 - 2015



	2010-11	2011-12	2012-13	2013-14	2014-15
Computer Science	\$114,987	\$460,923	\$1,100,495	\$522,116	\$0
Engineering	\$3,485,147	\$1,306,391	\$1,136,384	\$1,155,998	\$997,857
Graduate School of Computational Engineering	\$460,000	\$289,159	\$490,649	\$852,175	\$512,551
Total Funding	\$4,060,134	\$2,056,473	\$2,727,528	\$2,530,289	\$1,510,408

Notes:  
Due to reporting system restrictions, individual engineering departments (mechanical, electrical, etc.) are all grouped under the "Engineering" item in blue.

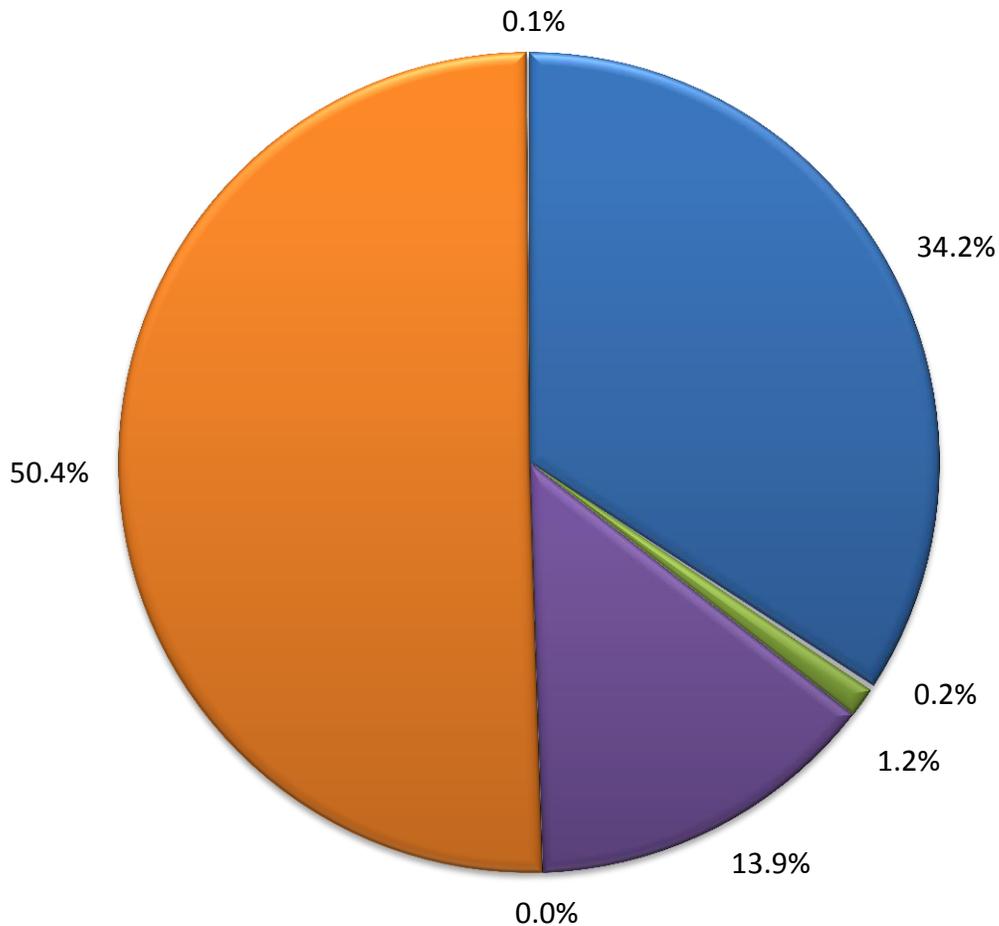


## HEALTH, EDUCATION & PROFESSIONAL STUDIES



# HEALTH, EDUCATION & PROFESSIONAL STUDIES

## Total CHEPS External Funding: \$5,139,806



■ Center for Community Career Education (\$1,755,474)

■ Challenger Center (\$9,980)

■ CHEPS (\$60,571)

■ Education (\$716,703)

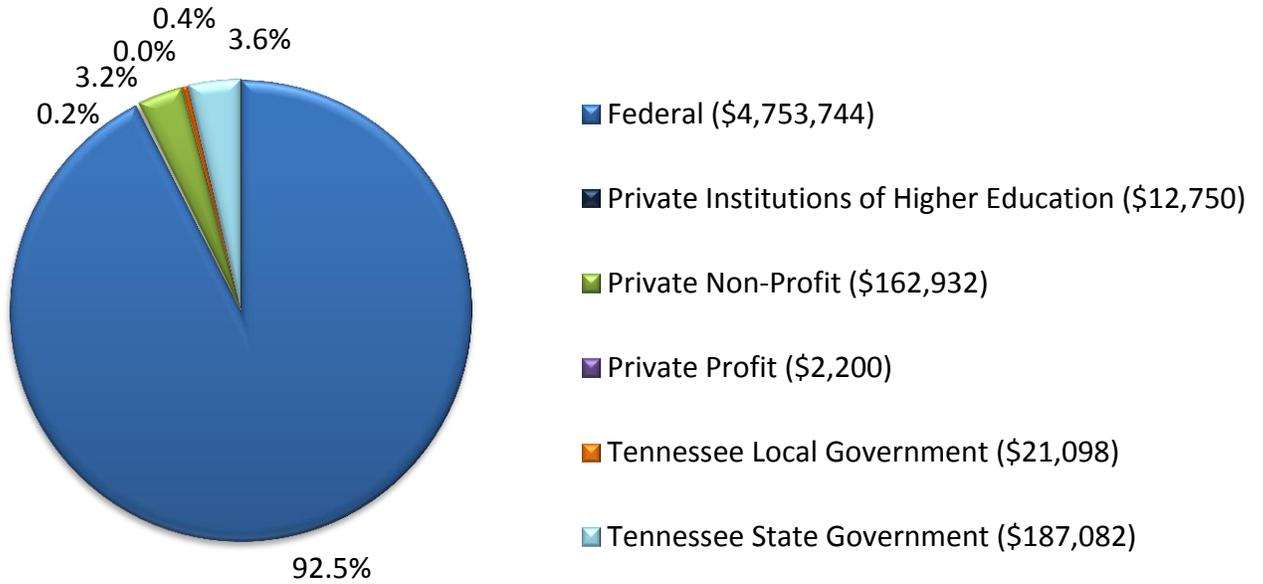
■ Interior Design (\$1,593)

■ Nursing (\$2,588,635)

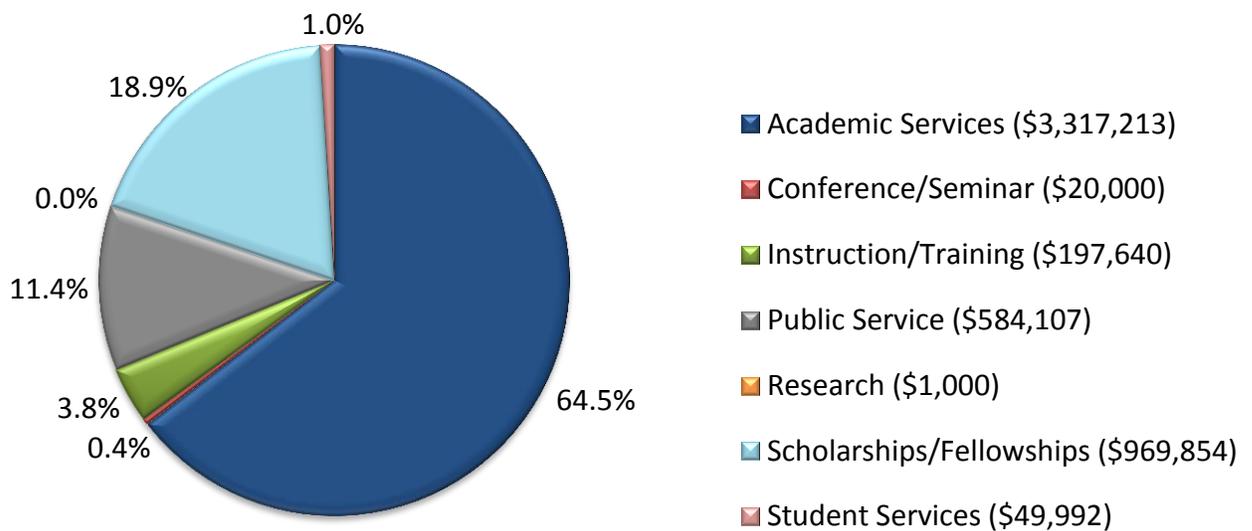
■ Physical Therapy (\$6,850)

# HEALTH, EDUCATION & PROFESSIONAL STUDIES

## Awards by Source



## Awards by Functional Area



# HEALTH, EDUCATION & PROFESSIONAL STUDIES

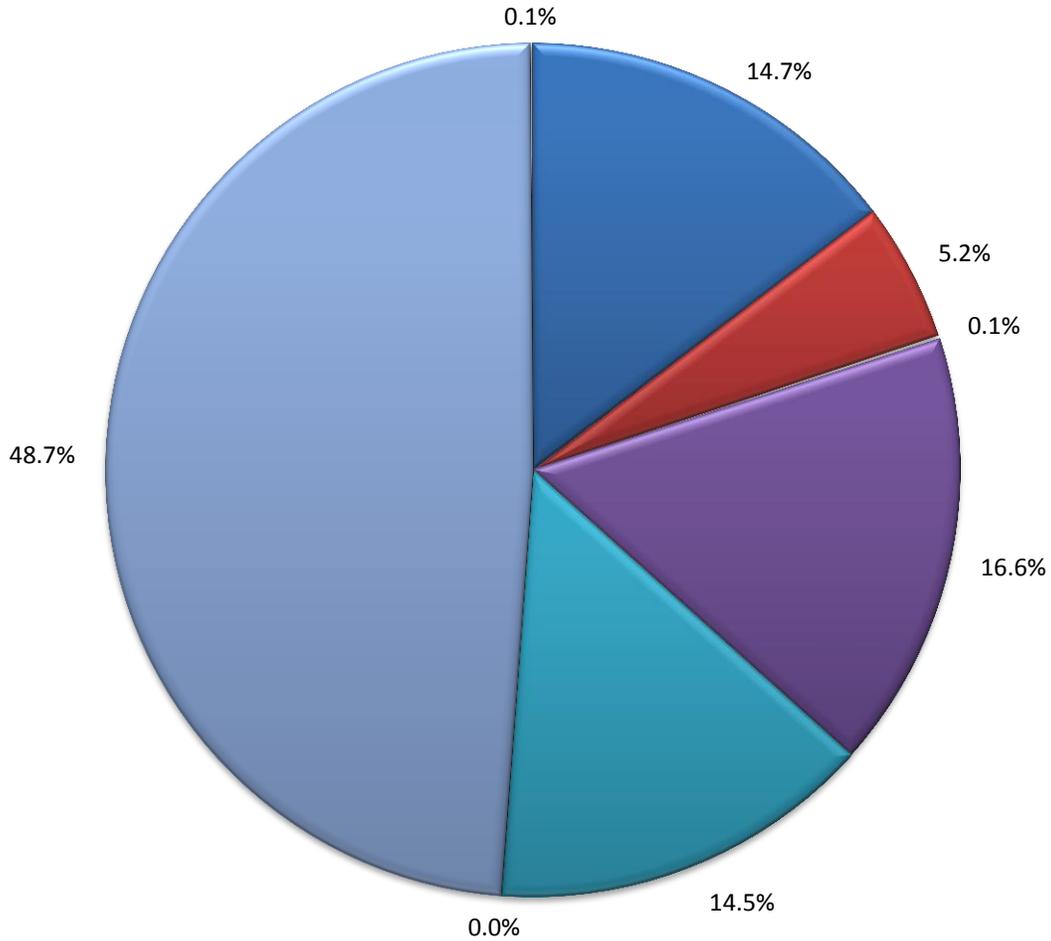
*Notes: Functional Areas (FA): AS = Academic Services; C/S = Conference/Seminar; IS = Institutional Support; I/T = Instruction/Training; PS = Public Service; R = Research; S/F = Scholarships/Fellowships; SS = Student Services. Awards are listed alphabetically by administering department and name of the lead PI, but many awards represent the collaborative efforts of multiple investigators and departments/units.*

Awards by Department				
Lead PI/PD	Funder	Title	Amount	FA
Center for Community Career Education				
Boykin, Twyler	US Dept. of Education	Upward Bound Math and Science	\$250,000.00	PS
Brownlee, Belinda	US Dept. of Education	Upward Bound at UTC	\$302,271.00	AS
Cole, Sandra	Tennessee Higher Education Commission	Each One Reach One (EORO)	\$49,992.00	SS
	Hamilton County Public Schools	PAWS 2015 Summer Camp	\$8,975.00	I/T
		PAWS Support	\$12,123.00	AS
	Community Foundation of Greater Chattanooga Incorporated	PAWS College Knowledge, Now!	\$15,000.00	PS
PRELIMINARY: PAWS College Knowledge, Now!		\$0.00	PS	
Huckabay, Hunter	US Dept. of Education	GEAR UP in Hamilton County, TN 2015	\$624,066.00	AS
Long, Cynthia	US Dept. of Education	Educational Opportunity Center 2015	\$263,047.00	AS
Vann, Karen	US Dept. of Education	Hamilton County Talent Search 2011-2016	\$230,000.00	PS
Challenger Center				
Storey, Perry	Community Foundation of Greater Chattanooga Incorporated	Next Generation STEM-TECH Labs	\$9,980.00	I/T
		PRELIMINARY: Next Generation STEM-TECH Labs	\$0.00	I/T
College of Health, Education, & Professional Studies				
Crawford, Elizabeth	Tennessee Department of Education	2015 Governor's School for Prospective Teachers	\$60,571.00	I/T
Education				
Ellington, Lucien	Apgar Foundation	Citizenship Institutes for Secondary School Teachers and Augmentation of 2015 UTC Constitution Day	\$20,000.00	C/S
	Association for Asian Studies, Inc	Education About Asia Journal 2015	\$74,107.00	PS
	Japan Foundation (via UC Foundation)	Integrating Japan into Tennessee Middle and High School History and Geography Courses	\$4,999.00	I/T
	Freeman Foundation	National Consortium for Teaching about Asia	\$17,996.00	I/T
Gamble, Anne	US Dept. of Education	Teachers Helping English Language Proficiency (HELP)	\$510,725.00	AS
McAllister, Deborah	Tennessee Higher Education Commission	Building the Staircase to Algebra through Grade 5 Mathematics	\$74,925.96	I/T

Awards by Department				
Lead PI/PD	Funder	Title	Amount	FA
McAllister, Deborah	Vanderbilt University	NASA Mathematics Resources and Super Source Activities for Elementary Grades Preservice Teachers- Amendment 10	\$12,750.00	I/T
	Aetos Systems Inc.	STEM Saturdays	\$1,200.00	AS
<b>Interior Design</b>				
Kendall, Catherine	Tennessee Board of Architectural and Engineering Examiners	TBAEE Funding for GoPro Cameras for Senior Thesis Projects	\$1,593.00	I/T
<b>Nursing</b>				
Hill, Linda	Health Resources and Services Administration	CRNAs in 3D: Increasing Diversity, Reducing Disparities, & Understanding the Social Determinants of Health	\$346,343.00	AS
	Health Resources and Services Administration	Nurse Anesthetists Traineeships at UTC	\$28,843.00	AS
Jackson, Joanie	Community Foundation of Greater Chattanooga Incorporated	Falls Prevention: A Matter Of Balance Master Training	\$0.00	PS
	Community Foundation of Greater Chattanooga Incorporated	Falls Prevention: A Matter Of Balance Master Training	\$15,000.00	PS
Schreeder, Carolyn	Health Resources and Services Administration	The InterProfessional Collaborative Practice Approach for Geriatric Education Strategies (IPCP-AGES)	\$488,005.00	AS
Smith, Christine	Health Resources and Services Administration	COMPASS Project 2015	\$367,317.00	AS
		PACT 4 Interprofessional Geriatric Care	\$373,273.00	AS
		Scholarships for Disadvantaged Nursing Students at UTC 2012-16	\$630,317.00	S/F
		UTC Advanced Education Nursing Traineeships	\$339,537.00	S/F
<b>Physical Therapy</b>				
Hanks, June	Alliance of Women Philanthropists - Giving Circle	Human Patient Simulation in Physical and Occupational Therapy Doctoral Programs	\$5,850.00	I/T
Levine, David	LiteCure Medical, LLC	Effects of Laser Therapy on Muscle Endurance	\$1,000.00	R
<b>College of Health, Education, &amp; Professional Studies Total Dollars Rewarded = \$5,139,806</b>				

# HEALTH, EDUCATION & PROFESSIONAL STUDIES

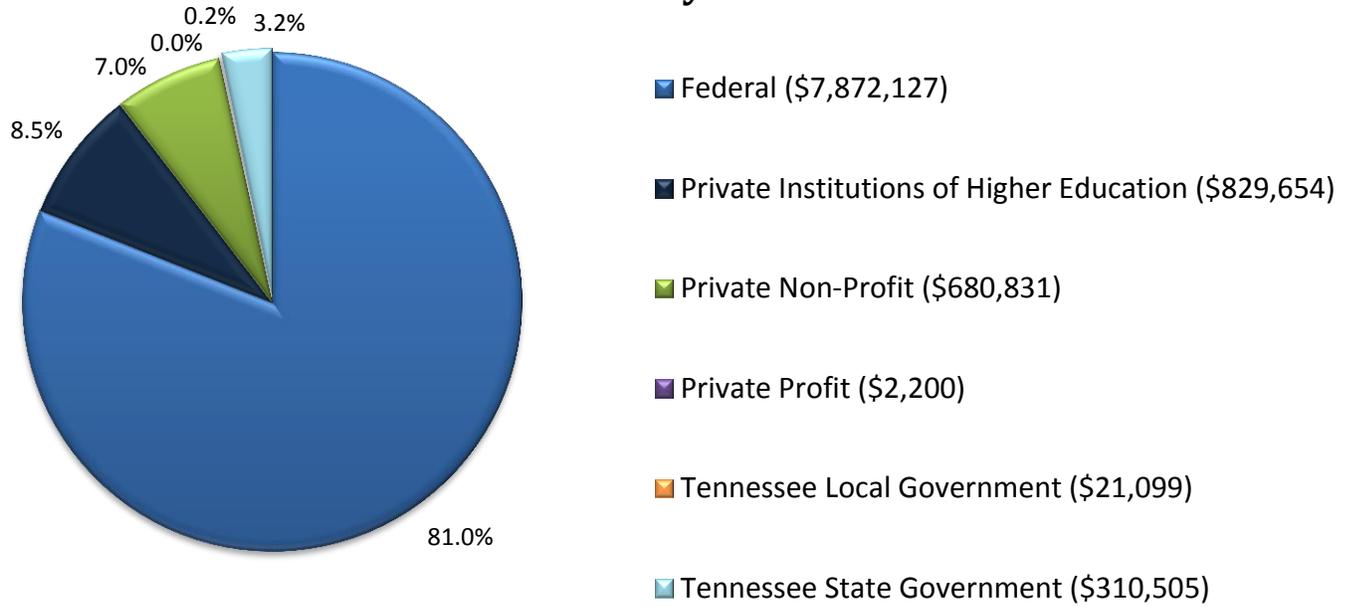
## Total CHEPS External Funds Requested: \$9,716,416



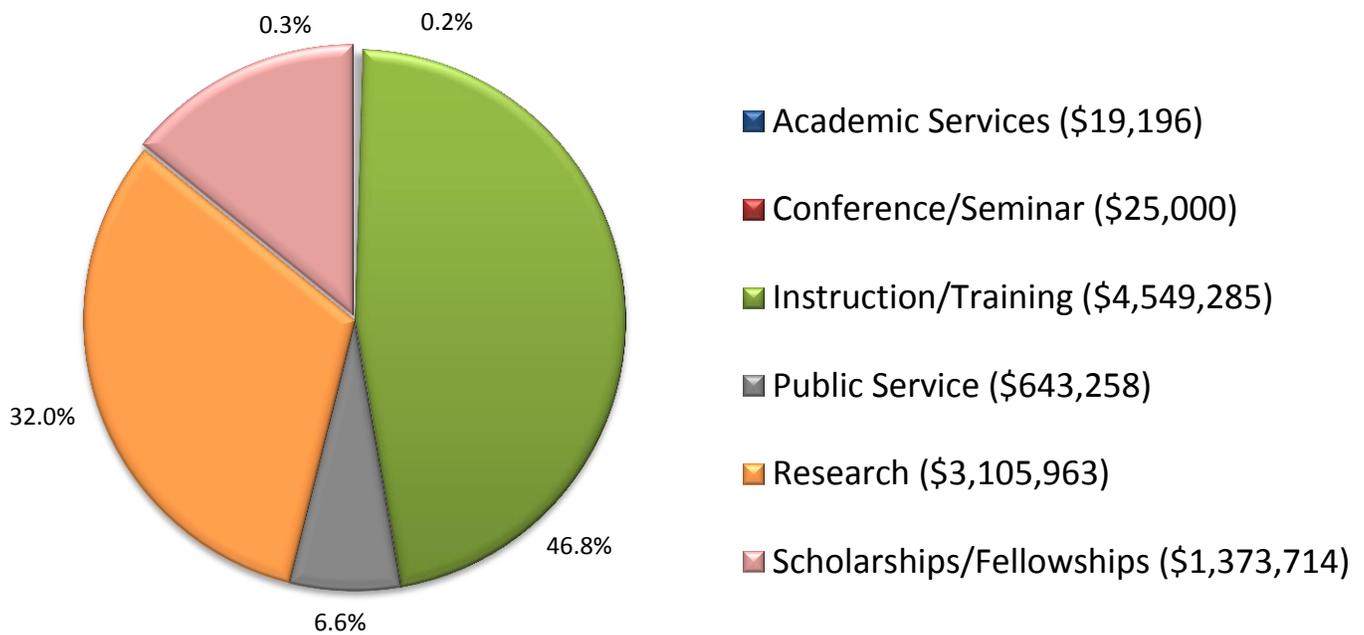
- Center for Community Career Education (\$1,424,557)
- Challenger Center (\$509,179)
- CHEPS (\$13,106)
- Education (\$1,612,789)
- Health & Human Performance (\$1,412,516)
- Interior Design (\$2,200)
- Nursing (\$4,730,385)
- Physical Therapy (\$11,686)

# HEALTH, EDUCATION & PROFESSIONAL STUDIES

## Submissions by Source



## Submissions by Functional Area



# HEALTH, EDUCATION & PROFESSIONAL STUDIES

*Notes: Functional Areas (FA): AS = Academic Services; C/S = Conference/Seminar; IS = Institutional Support; I/T = Instruction/Training; PS = Public Service; R = Research; S/F = Scholarships/Fellowships; SS = Student Services. Awards are listed alphabetically by administering department and name of the lead PI, but many awards represent the collaborative efforts of multiple investigators and departments/units.*

Submissions by Department				
Lead PI/PD	Funder	Title	Amount	FA
Center for Community Career Education				
Cole, Sandra	Alliance of Women Philanthropists - Giving Circle	College Knowledge, Now!	\$10,000.00	PS
	Tennessee Higher Education Commission	Each One Reach One (EORO)	\$99,984.00	SS
	Hamilton County Public Schools	PAWS 2015 Summer Camp	\$8,975.88	I/T
		PAWS Support	\$12,123.00	PS
	Community Foundation of Greater Chattanooga Incorporated	PRELIMINARY: PAWS College Knowledge, Now!	\$0.00	PS
PAWS College Knowledge, Now!		\$19,743.48	PS	
Gholston, Shirl	US Dept. of Education	Student Support Services FY16-FY21	\$1,273,730.40	SS
Long, Cynthia	US Dept. of Education	Southern Appalachian Educational Opportunity Center - Student Support Services	\$0.00	AS
Challenger Center				
Storey, Perry	National Oceanic & Atmospheric Administration	Earth Odyssey: Building Environmental Literacy for Teachers and Students In the Tennessee Valley Region	\$489,198.62	PS
	Community Foundation of Greater Chattanooga Incorporated	Next Generation STEM-TECH Labs for the Challenger Learning Center	\$19,980.00	I/T
		PRELIMINARY: Next Generation STEM-TECH Labs	\$0.00	I/T
College of Health, Education, & Professional Studies				
O'Brien Oden, Elizabeth	Community Foundation of Greater Chattanooga Incorporated	PRELIMINARY: Youth Mental Health First Aid I/T in Chattanooga	\$0.00	PS
		Youth Mental Health First Aid I/T in Chattanooga	\$13,105.80	PS
Education				
Crawford, Elizabeth	Tennessee Department of Education	2015 Governor's School for Prospective Teachers	\$60,571.00	I/T
Ellington, Lucien	Apgar Foundation	Citizenship Institutes for Secondary School Teachers and Augmentation of 2015 UTC Constitution Day	\$25,000.00	C/S
	Association for Asian Studies, Inc	Education About Asia Journal 2015	\$74,107.00	PS
	Freeman Foundation	Freeman Foundation Teacher Professional Development Programs	\$17,996.00	AS
	Japan Foundation (via UC Foundation)	Integrating Japan into Tennessee Middle and High School History and Geography Courses	\$4,999.00	I/T

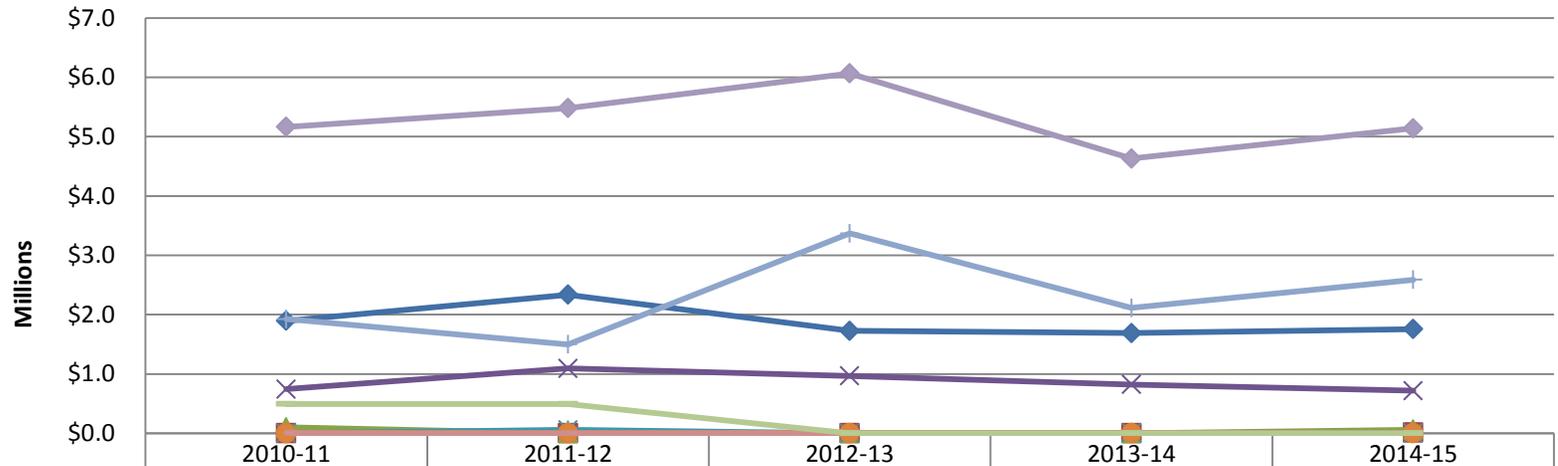
Submissions by Department				
Lead PI/PD	Funder	Title	Amount	FA
Ellis, Jennifer	National Science Foundation	EI: Project EPIC: Expanding Participation in Coding: Creating an Inclusive 21st Century Gig-Enabled Teaching and Learning Community	\$1,245,693.23	R
McAllister, Deborah	Tennessee Higher Education Commission	Building the Staircase to Algebra through Grade 5 Mathematics	\$74,977.92	I/T
	Vanderbilt University	NASA Mathematics Resources and Super Source Activities for Elementary Grades Preservice Teachers	\$30,472.00	I/T
	Aetos Systems Inc.	STEM Saturdays	\$1,200.00	AS
	Kinder Morgan Foundation	STEM Saturdays: Mathematics and Connections	\$5,000.00	PS
Wingate, Kimberly	Tennessee Higher Education Commission	Teaching Common Core Mathematics Collaboratively for Regular and Special Education Teachers	\$72,772.56	I/T
Health & Human Performance				
Acocello, Shellie	NineSigma	PRELIMINARY: iCAAR - Improving Coach Approachability and Athlete perceived norms toward Reporting concussion: Attitudes and behaviors toward concussion reporting among high school football players.	\$0.00	R
Heath, Gregory	Emory University	The Exercise is Medicine Solution: Primary Care Linkages with Underserved Patients through Community Supports for Chronic Disease Prevention and Control (EIMplus)	\$399,590.80	R
		The Exercise is Medicine Solution: Primary Care Linkages with Underserved Patients through Community Supports for Chronic Disease Prevention and Control (EIMplus) - Resubmission	\$399,590.80	R
Wilkerson, Gary	National Science Foundation	A Big Data Approach to Sports Injury Prevention and Improvement of Functional Capabilities	\$599,854.10	R
	University of Tennessee Research Foundation (UTRF)	Mobile Electronic Tools for Assessment of Sport Injury Risk and Change in Functional Status over Time	\$13,480.00	R
Interior Design				
Kendall, Catherine	Tennessee Board of Architectural and Engineering Examiners	TBAEE Funding for GoPro Cameras for Senior Thesis Projects	\$2,200.00	I/T

Submissions by Department				
Lead PI/PD	Funder	Title	Amount	FA
<b>Nursing</b>				
Hill, Linda	Health Resources and Services Administration	NAT at UTC 2015	\$0.00	S/F
Hunt, Wanda	Boston Medical Center	Learning Together About Mammograms	\$446,754.00	R
Jackson, Joanie	Community Foundation of Greater Chattanooga Incorporated	Falls Prevention: A Matter Of Balance Master Training	\$19,980.00	PS
		PRELIMINARY: Falls Prevention: A Matter Of Balance Master Training	\$0.00	PS
	Health Resources and Services Administration	PDSACT: Preceptor Development for Systematic Advanced Clinical Training	\$1,761,130.36	I/T
Schreeder, Carolyn	Health Resources and Services Administration	Geriatric Integrated Primary Care and Training (Geriatric ImPaCT)	\$2,502,520.28	I/T
<b>Physical Therapy</b>				
Hanks, June	Alliance of Women Philanthropists - Giving Circle	Human Patient Simulation in Physical and Occupational Therapy Doctoral Programs	\$10,686.00	I/T
Levine, David	LiteCure Medical, LLC	Effects of Laser Therapy on Muscle Endurance	\$999.75	R
<b>College of Health, Education, &amp; Professional Studies Total Dollars Requested = \$9,716,416</b>				

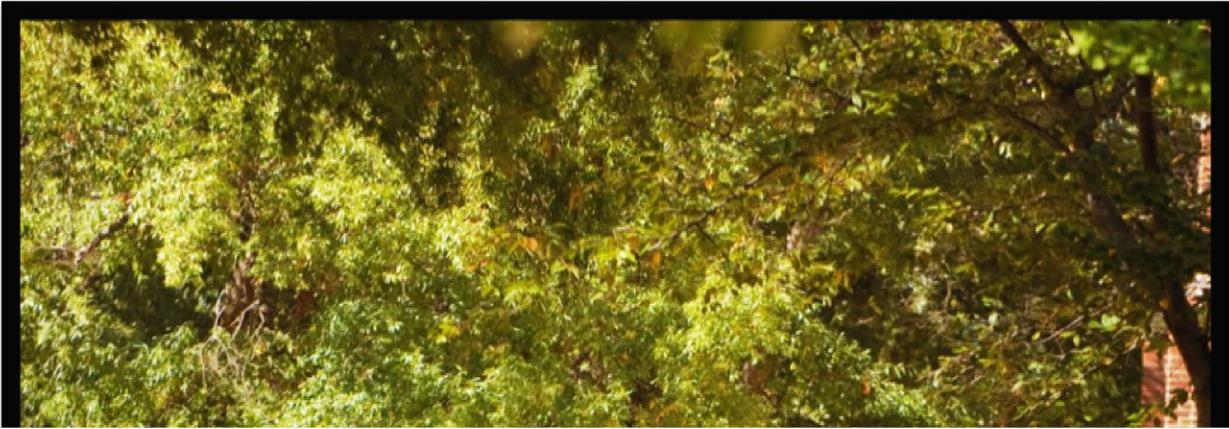
# HEALTH, EDUCATION AND PROFESSIONAL STUDIES

## FIVE-YEAR FUNDING TRENDS BY DEPARTMENT

### FISCAL YEARS 2011 - 2015



	2010-11	2011-12	2012-13	2013-14	2014-15
◆ CCCE	\$1,894,876	\$2,335,655	\$1,725,090	\$1,689,723	\$1,755,474
■ Challenger Center	\$0	\$0	\$0	\$0	\$9,980
▲ Dean's Office	\$98,788	\$0	\$0	\$0	\$60,571
✕ Education	\$743,246	\$1,092,123	\$967,880	\$820,650	\$716,703
* Health & Human Performance	\$1,250	\$58,079	\$0	\$5,000	\$0
● Interior Design	\$3,334	\$2,113	\$2,049	\$2,160	\$1,593
+ Nursing	\$1,924,532	\$1,498,316	\$3,367,680	\$2,113,127	\$2,588,635
— Physical Therapy	\$4,887	\$1,066	\$3,270	\$0	\$6,850
— Social Work	\$493,480	\$493,480	\$0	\$0	\$0
◆ Total Funding	\$5,164,393	\$5,480,832	\$6,065,969	\$4,630,660	\$5,139,806

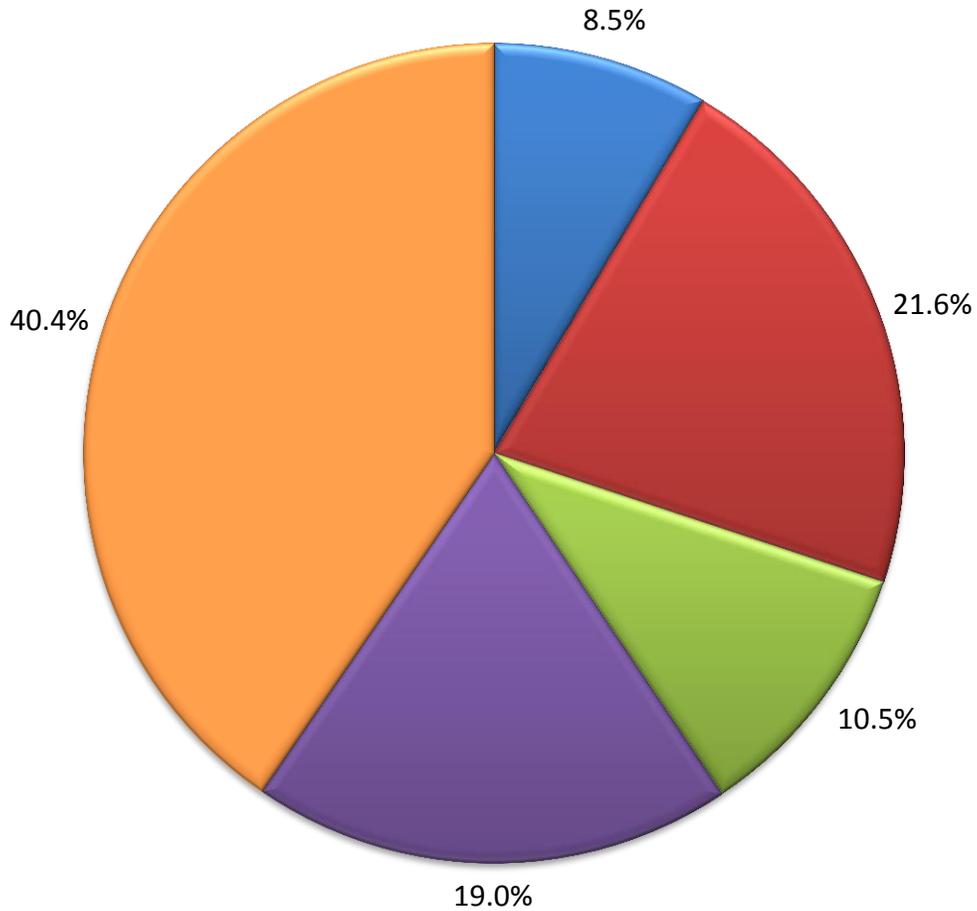


# ADMINISTRATIVE UNITS



# ADMINISTRATIVE UNITS

**Total Admin External Funding: \$704,362**



■ Campus Law Enforcement(\$60,000)

■ Center for Academic & Innovative Technologies (\$152,000)

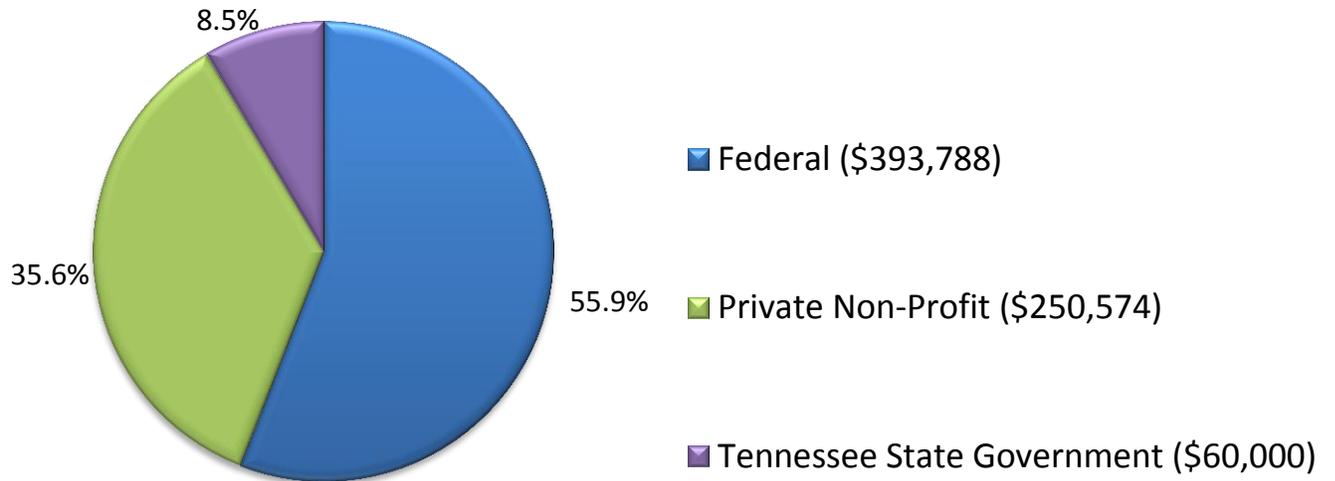
■ Provost's Office (\$74,042)

■ WUTC-FM (\$133,574)

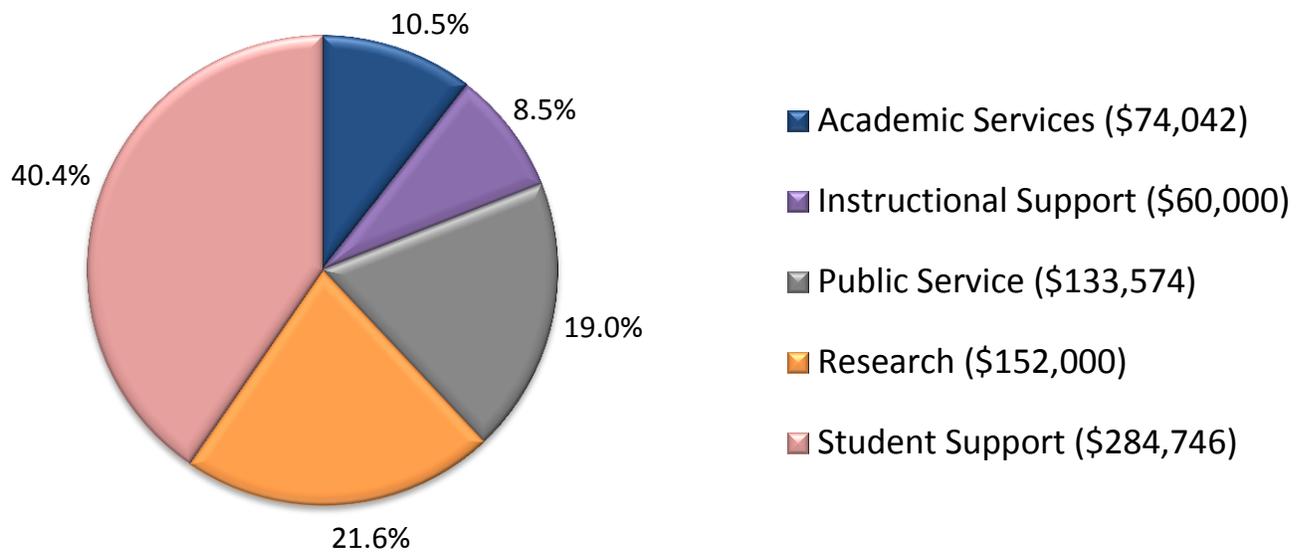
■ Student Support Services (\$284,746)

# ADMINISTRATIVE UNITS

## Awards by Source



## Awards by Functional Area



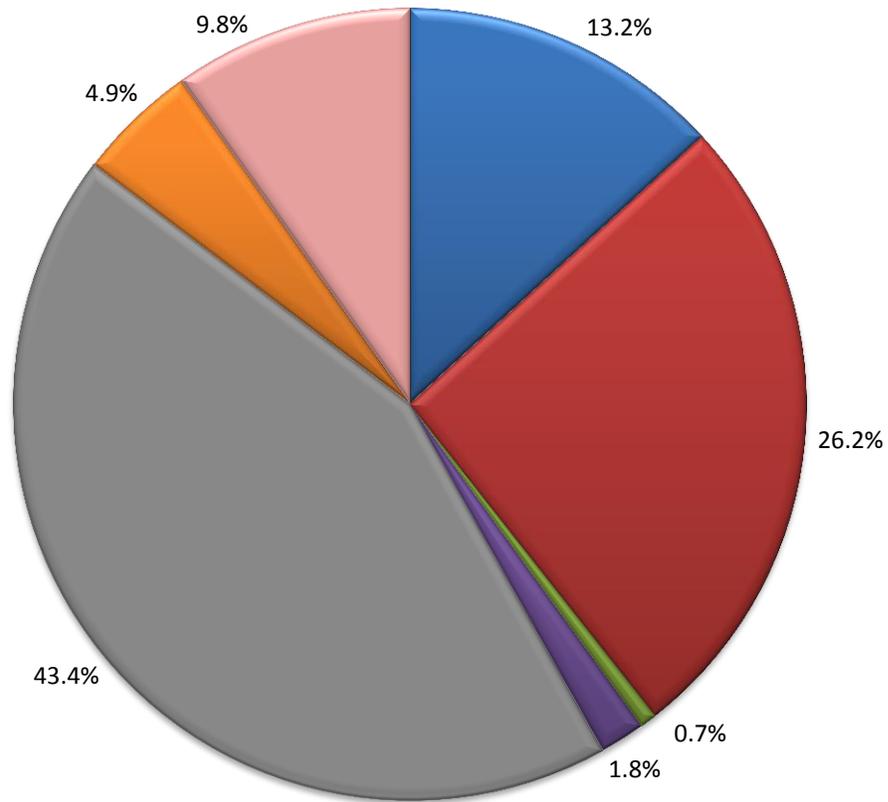
# ADMINISTRATIVE UNITS

Notes: Functional Areas (FA): AS = Academic Services; C/S = Conference/Seminar; IS = Institutional Support; I/T = Instruction/Training; PS = Public Service; R = Research; S/F = Scholarships/Fellowships; SS = Student Services. Awards are listed alphabetically by administering department and name of the lead PI, but many awards represent the collaborative efforts of multiple investigators and departments/units.

Awards by Department				
PI	Sponsor	Title	Amount	FA
<b>Campus Law Enforcement</b>				
Hamilton, Craig	Tennessee Office of Criminal Justice Programs	Making our Campus Safer (MOCS)	\$60,000.00	IS
<b>Center for Academic &amp; Innovative Technologies</b>				
Carroll, Andrew	Lyndhurst Foundation	Capacity Building for the UTC Interdisciplinary Geospatial Technology Lab (IGTLab)	\$100,000.00	R
	Friends of Cloudland Canyon State Park	Cloudland Canyon/5 Points Trail Mapping and Cartographic Design	\$2,000.00	R
	Benwood Foundation	Support of Geographic Information System (GIS) services by Center for Academic and Innovative Technologies (CAIT)	\$15,000.00	R
	Tennessee Valley Authority	Tennessee Statewide Interactive Paddling Map and National River Database	\$35,000.00	R
<b>Provost's Office</b>				
Heath, Gregory	National Center for Research Resources	NIH BRAD - CREATE	\$74,042.00	AS
<b>WUTC-FM</b>				
McCormack, John	Corporation for Public Broadcasting	FY2015 CPB Community Service Grant	\$133,574.00	PS
<b>Student Support Services</b>				
Gholston, Shirl	US Dept. of Education	Student Support Services 2015	\$284,746.00	SS
<b>Administrative Units Total Dollars Awarded = \$704,362</b>				

# ADMINISTRATIVE UNITS

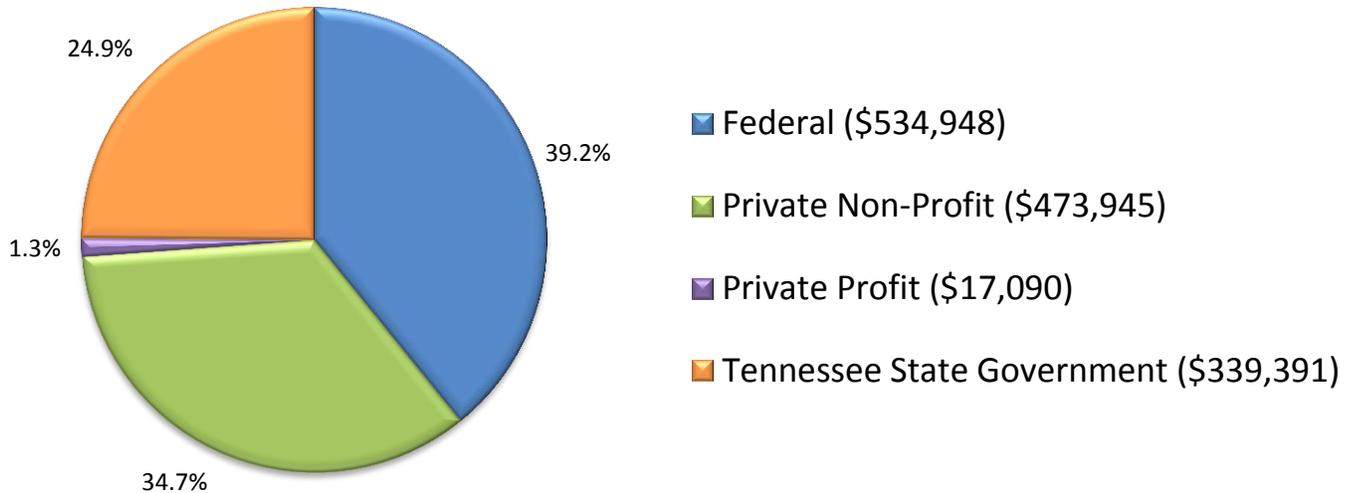
**Total Admin External Funds Requested:  
\$1,365,374**



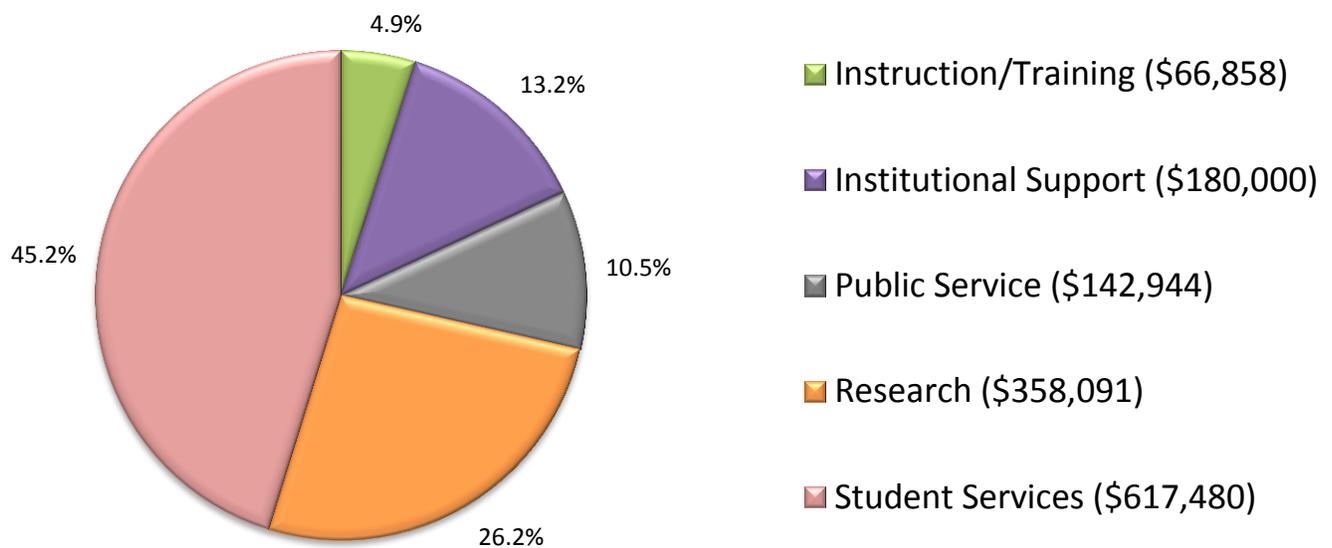
- Campus Law Enforcement (\$180,000)
- Center for Academic & Innovative Technologies (\$358,091)
- Cooperative & International Education (\$9,370)
- Financial Aid (\$25,000)
- Records Office (\$592,480)
- Walker Center for Teaching & Learning (\$66,858)
- WUTC - FM (\$133,574)

# ADMINISTRATIVE UNITS

## Submissions by Source



## Submissions by Functional Area



# ADMINISTRATIVE UNITS

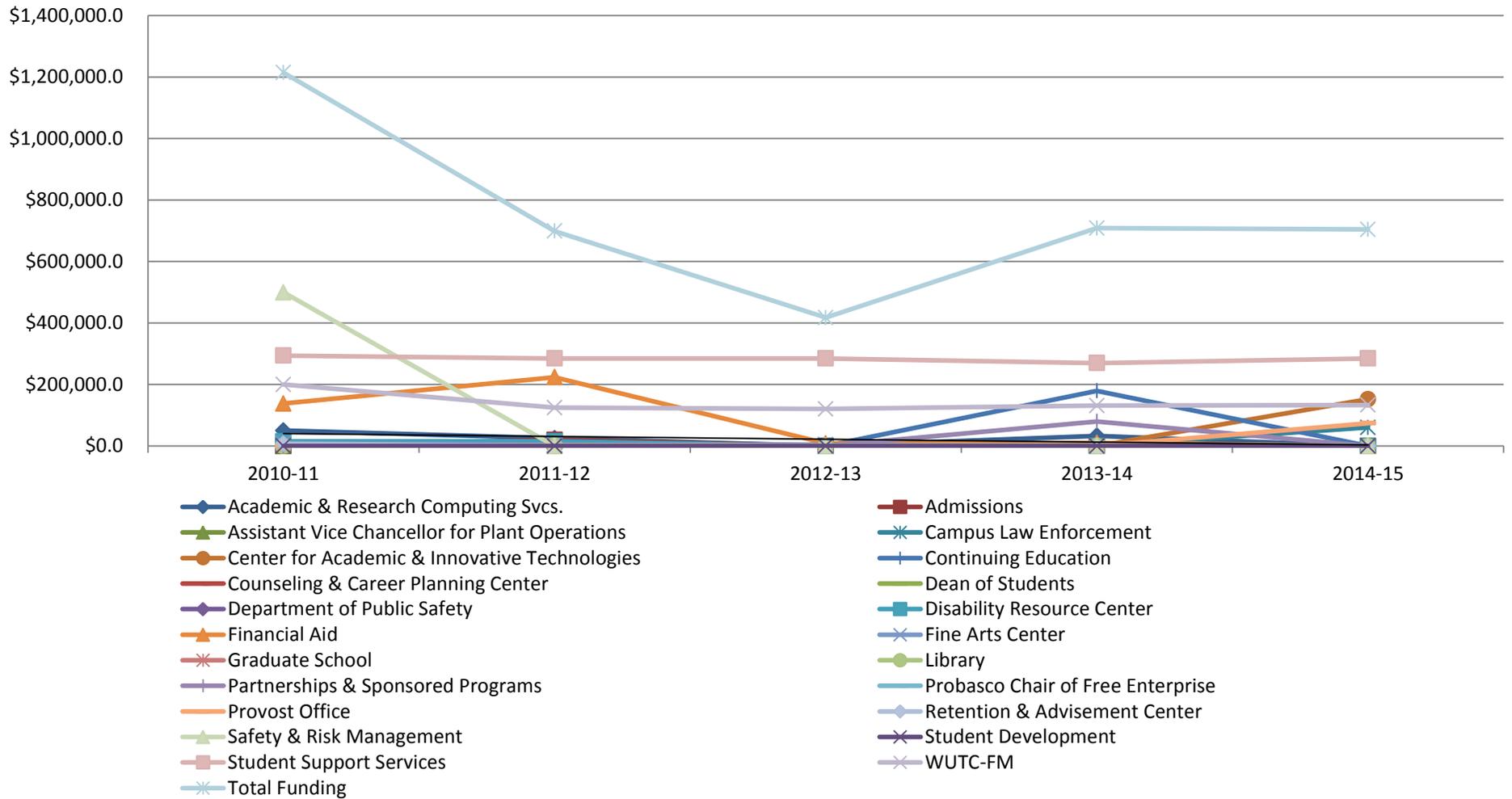
Notes: Functional Areas (FA): AS = Academic Services; C/S = Conference/Seminar; IS = Institutional Support; I/T = Instruction/Training; PS = Public Service; R = Research; S/F = Scholarships/Fellowships; SS = Student Services. Awards are listed alphabetically by administering department and name of the lead PI, but many awards represent the collaborative efforts of multiple investigators and departments/units.

Submissions by Department				
Lead PI/PD	Funder	Title	Amount	FA
<b>Campus Law Enforcement</b>				
Hamilton, Craig	Tennessee Office of Criminal Justice Programs	Making our Campus Safer (MOCS)	\$180,000.37	IS
<b>Center for Academic &amp; Innovative Technologies</b>				
Carroll, Andrew	Lyndhurst Foundation	Capacity Building for the UTC Interdisciplinary Geospatial Technology Lab (IGTLab)	\$304,000.00	R
	Chattanooga Chamber of Commerce	Chattanooga Area Chamber of Commerce Site Screening Decision Support Tool	\$17,089.92	R
	Friends of Cloudland Canyon State Park	Cloudland Canyon/5 Points Trail Mapping and Cartographic Design	\$2,000.80	R
	Tennessee Valley Authority	Tennessee Statewide Interactive Paddling Map and National River Database	\$34,999.99	R
<b>Cooperative &amp; International Education</b>				
Labs, Kristin	Alliance of Women Philanthropists - Giving Circle	Say It Forward: Global Language Development for Urban Youth	\$9,370.00	PS
<b>Financial Aid</b>				
Parker, William	Alliance of Women Philanthropists - Giving Circle	Financial Literacy - Peer Counseling	\$25,000.00	SS
<b>Records Office</b>				
Orth, Linda	US Dept. of Education	Southeast TN Veteran Academic & Leadership Organization for our Region (VALOR) Center of Excellence	\$499,948.20	SS
	Tennessee Higher Education Commission	Southeast TN Veteran Academic & Leadership Organization for our Region (VALOR) project	\$92,532.24	SS
<b>Walker Center for Teaching &amp; Learning</b>				
Ford, Dawn	Tennessee Higher Education Commission	Improving Mathematical Content Knowledge and Pedagogy in Middle School Teachers through a Cross-Curricular Hands-on Field Experience at the Gerace Research Centre	\$66,858.48	I/T
<b>WUTC-FM</b>				
McCormack, John	Corporation for Public Broadcasting	FY2015 CPB Community Service Grant	\$133,574.00	PS
<b>Administrative Unit Total Dollars Requested = \$1,365,374</b>				

# ADMINISTRATIVE UNITS

## FIVE-YEAR FUNDING TRENDS BY DEPARTMENT

### FISCAL YEARS 2011 - 2015



# UTC OFFICE OF RESEARCH & SPONSORED PROGRAMS

The Office of Research and Sponsored Programs seeks to promote academic scholarship and engagement by working with faculty and staff to foster the development of competitive grant proposals and sponsored programs contracts.

**We applaud the UTC community of scholars and experts for the activities documented in this report. Our university, community, and world are a better place because of your efforts!**

The office performs the following services:

- identifies funding opportunities;
- disseminates grant-related information to faculty and administrators;
- supports the development of grant proposals and budgets;
- facilitates grant writing workshops to assist faculty in developing competitive proposals;
- reviews and approves proposals before submission to ensure compliance with both UTC standards and sponsor requirements;
- administers the TERA-PAMS enterprise system on the UTC campus;
- assists faculty in submission of timely, accurate performance reports;
- assists with research and statistics needed for proposal development;
- obtains internal approvals for grant submissions; and
- reviews and processes contracts and sub-contracts awarded to the university.



Left to Right: (back) Todd Doman, Angie Johnson, Greg Heath; (front) Baley Whary, Meredith Perry, Maria Derrick.

## Contact us!

### Office of Research & Sponsored Programs

University of Tennessee at Chattanooga

Dept 4905

615 McCallie Avenue

Chattanooga, TN 37403

Phone (423) 425.4431

Fax (423) 425.4052

[opsp@utc.edu](mailto:opsp@utc.edu)

<http://www.utc.edu/opsp>